

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

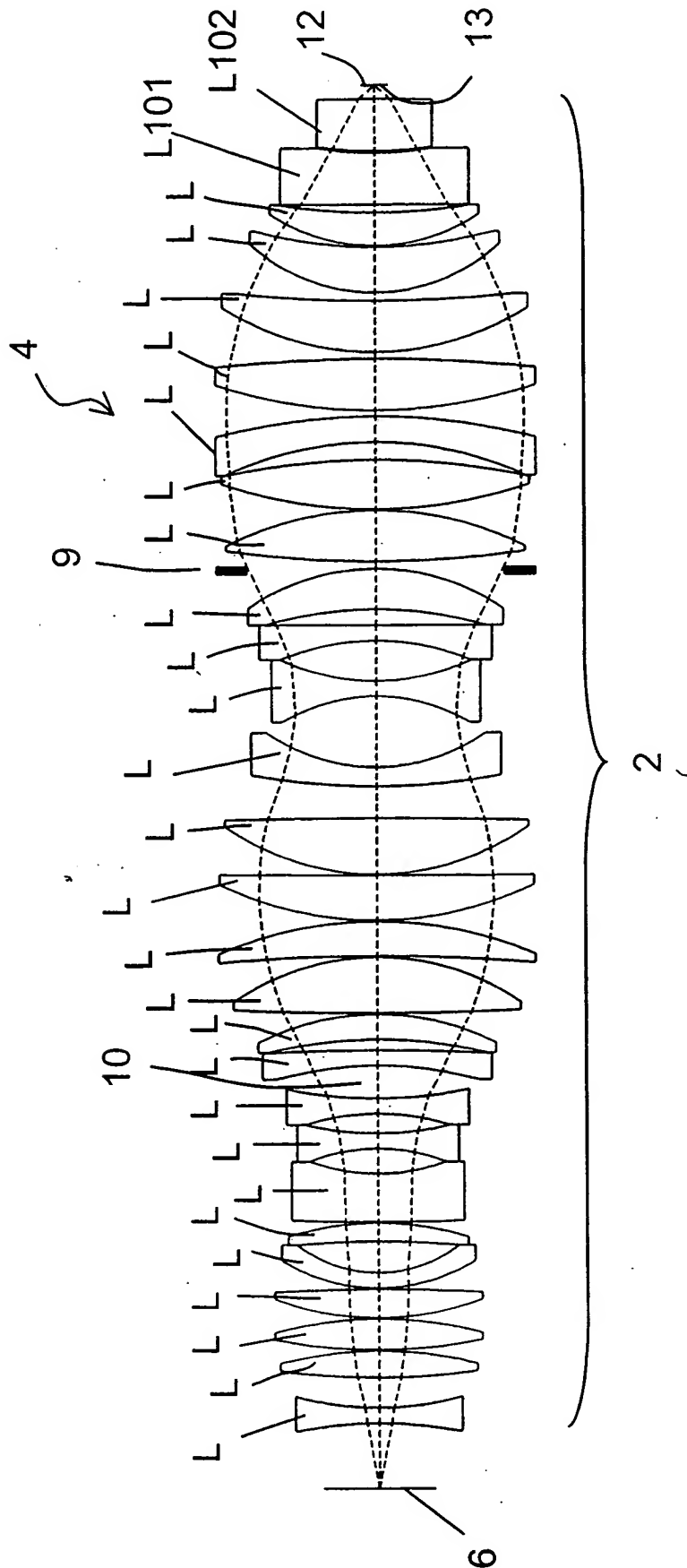


Figure 1

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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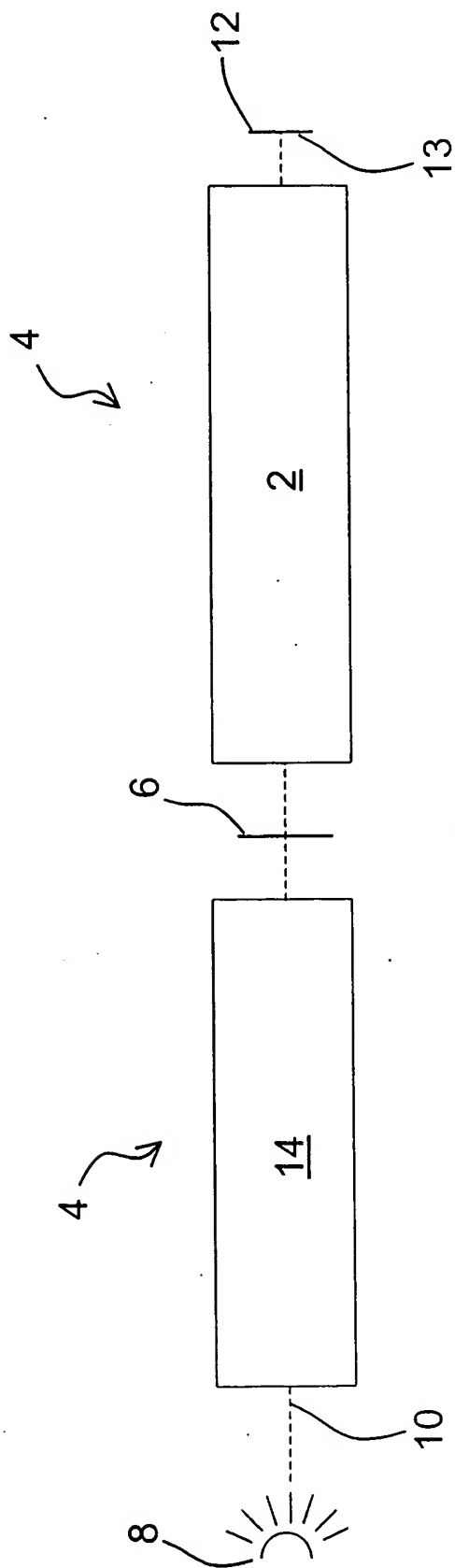


Figure 2

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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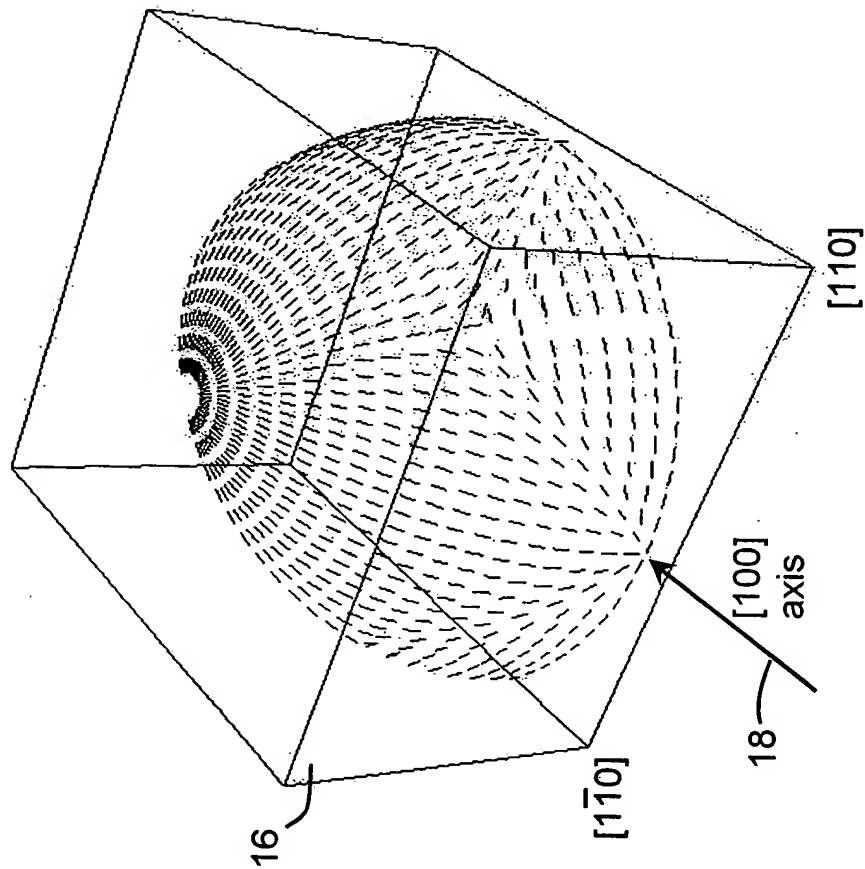


Figure 3A

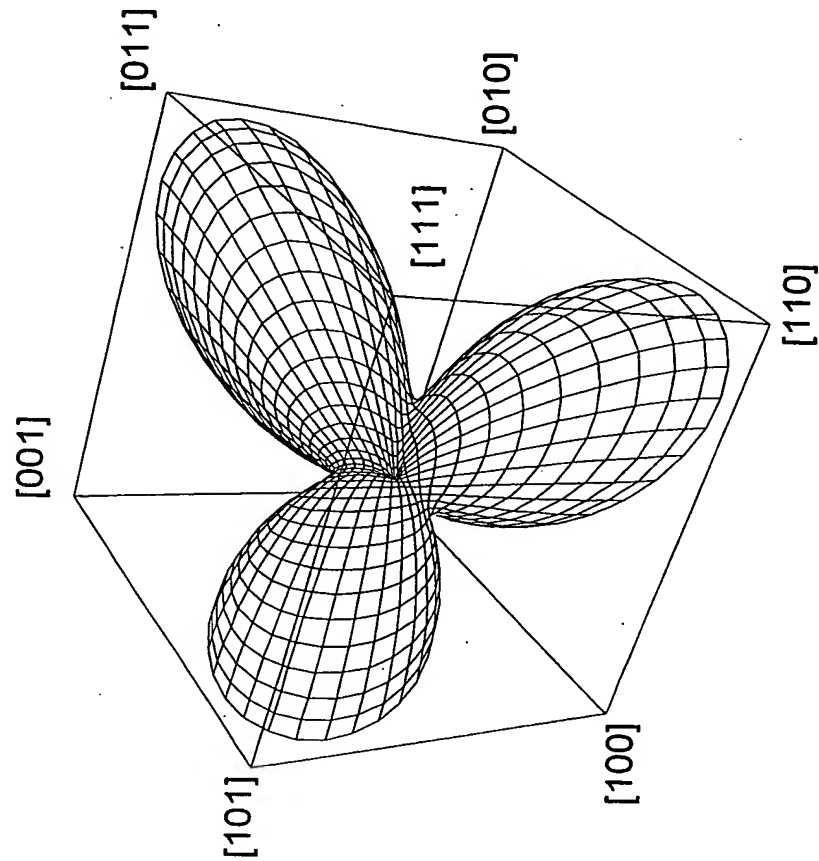


Figure 3B

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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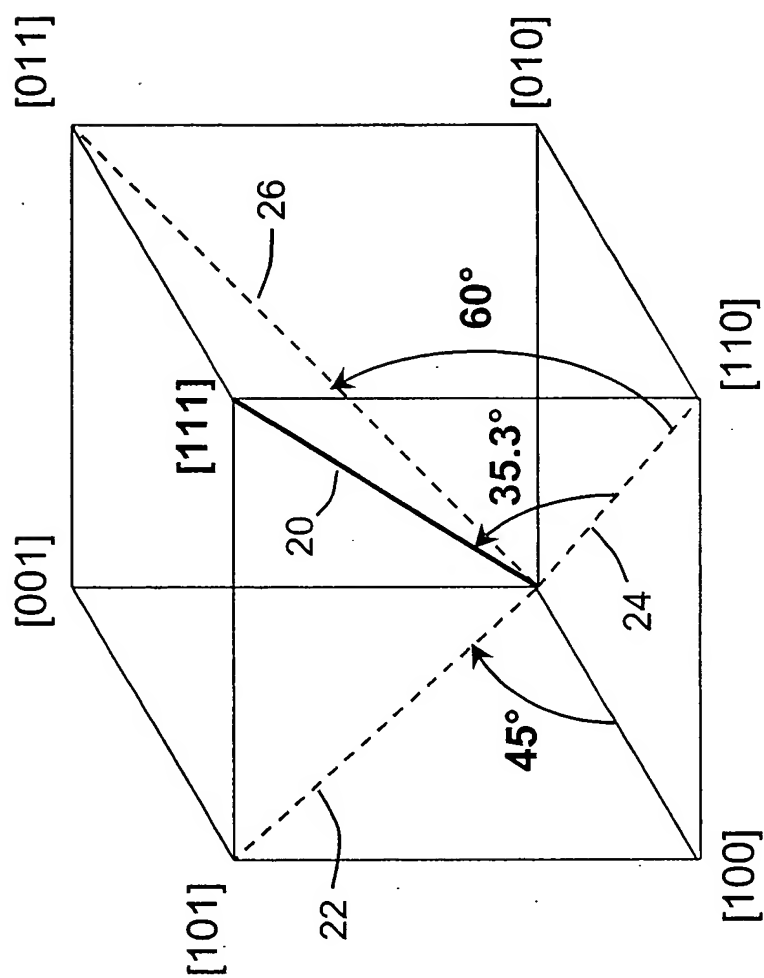


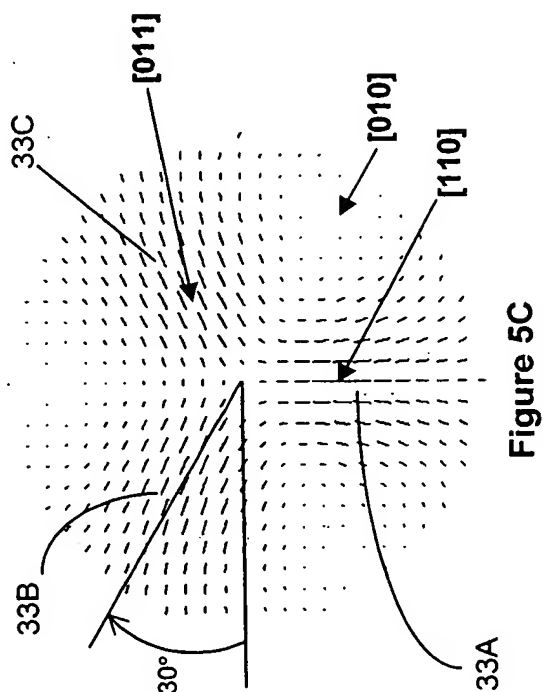
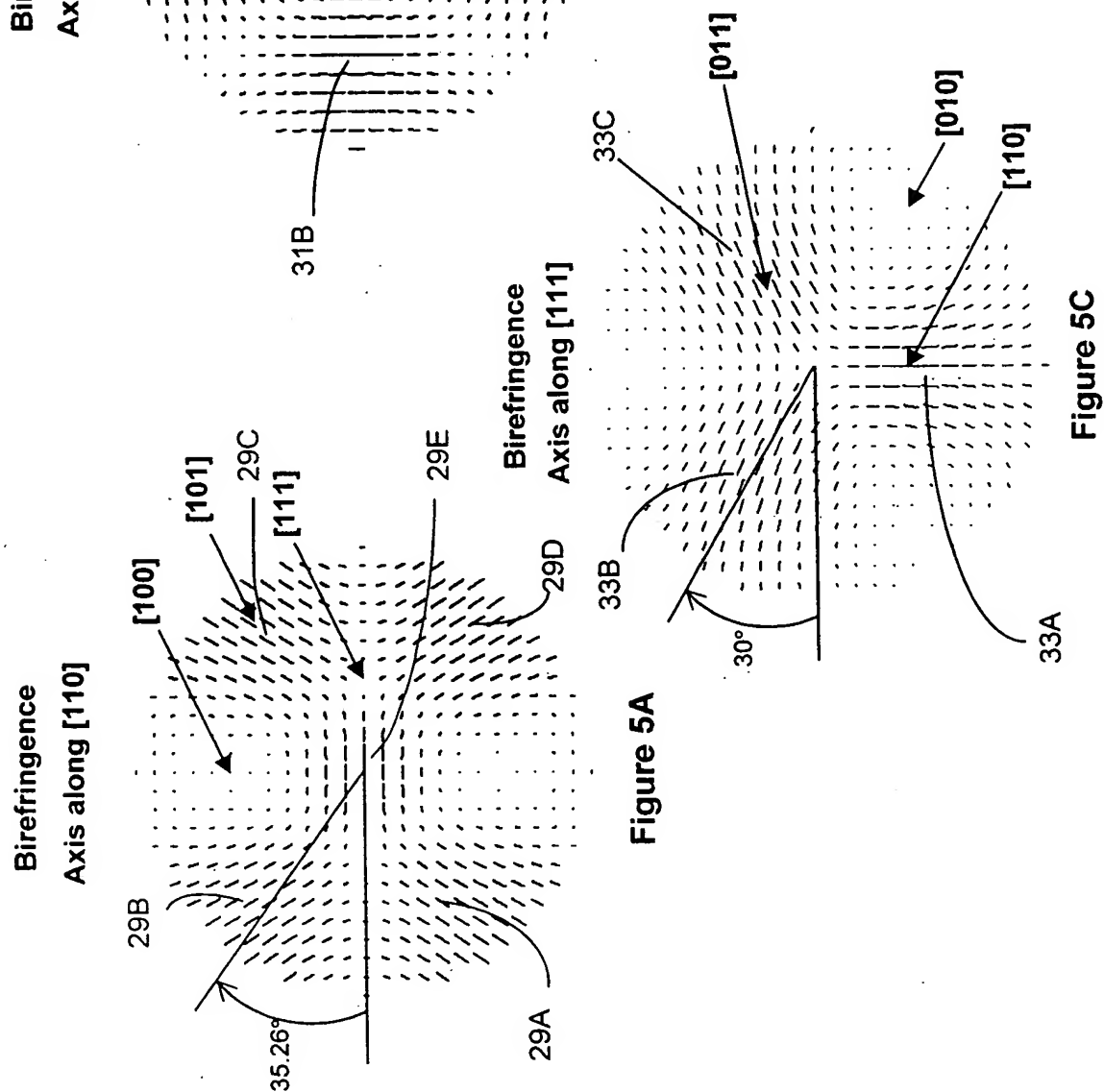
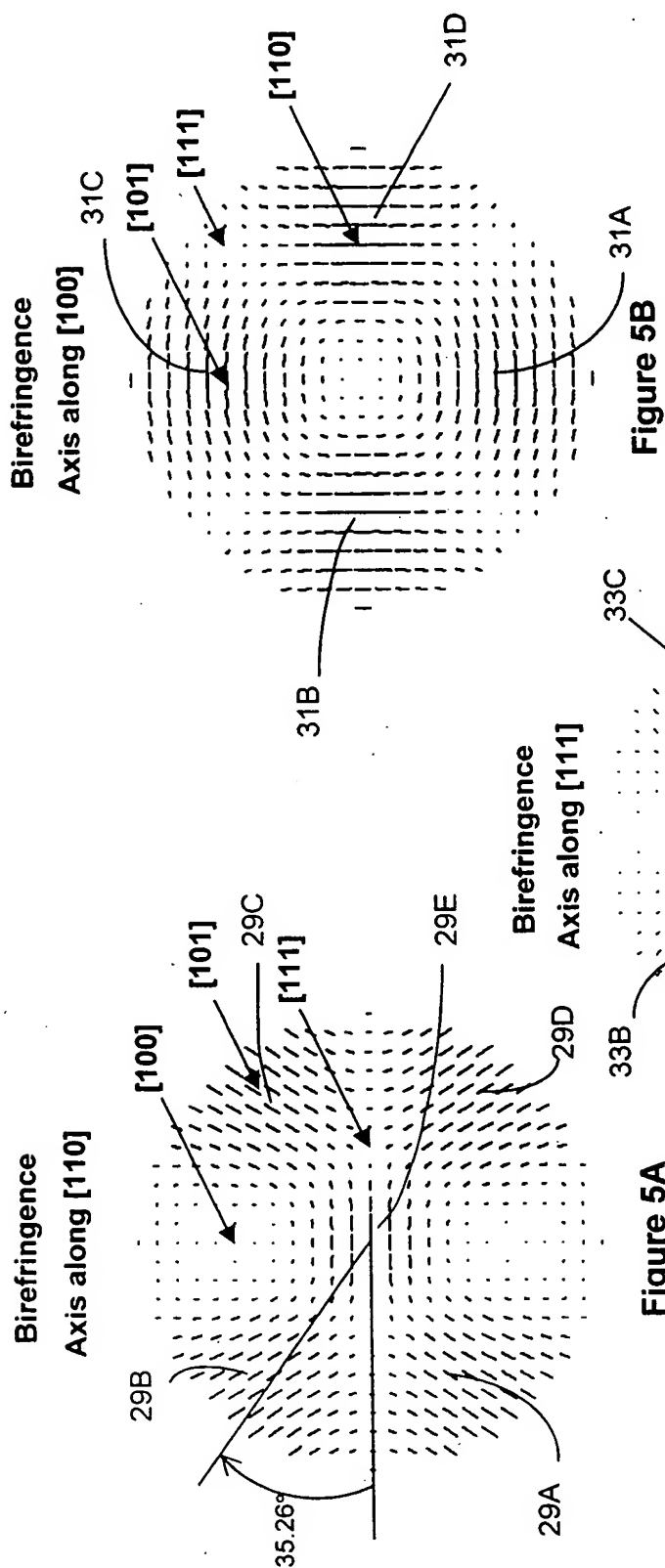
Figure 4

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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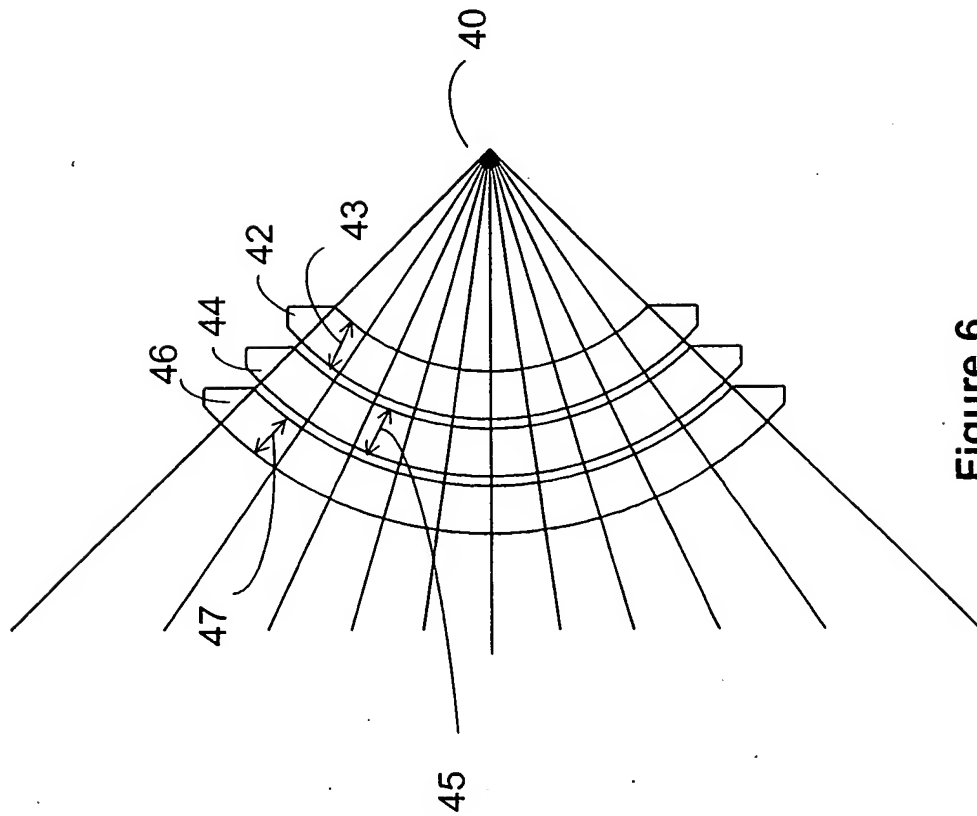


Figure 6

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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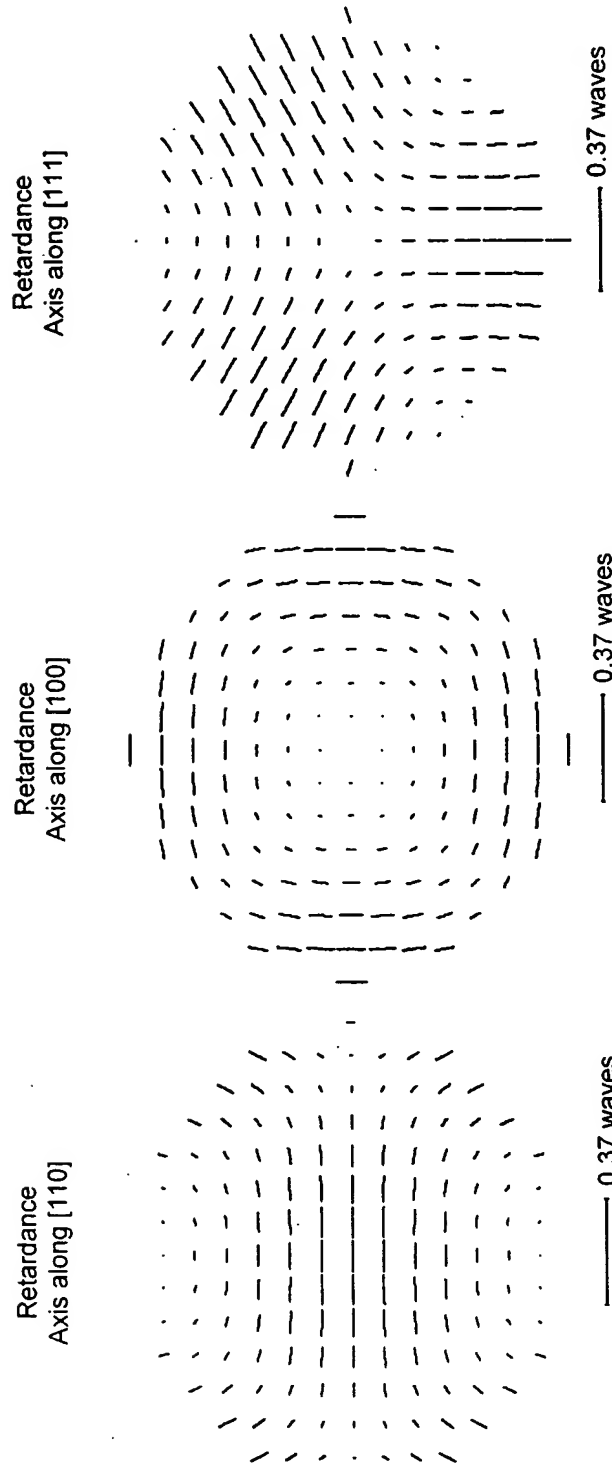


Figure 7A

Figure 7B

Figure 7C

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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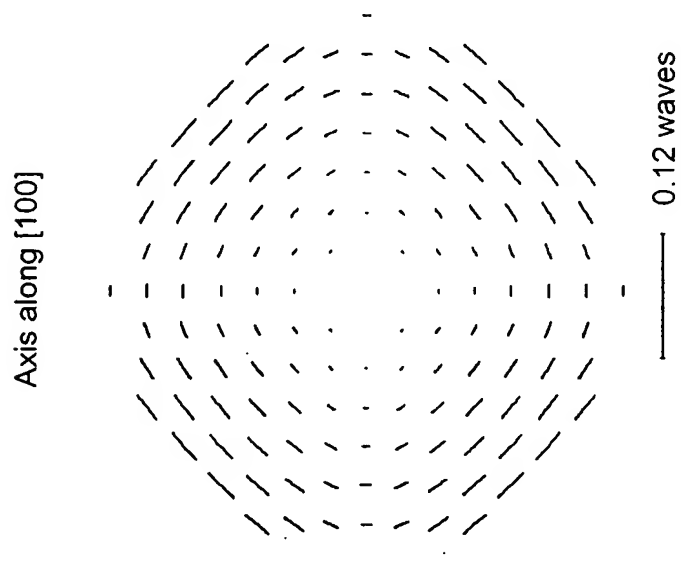


Figure 8C

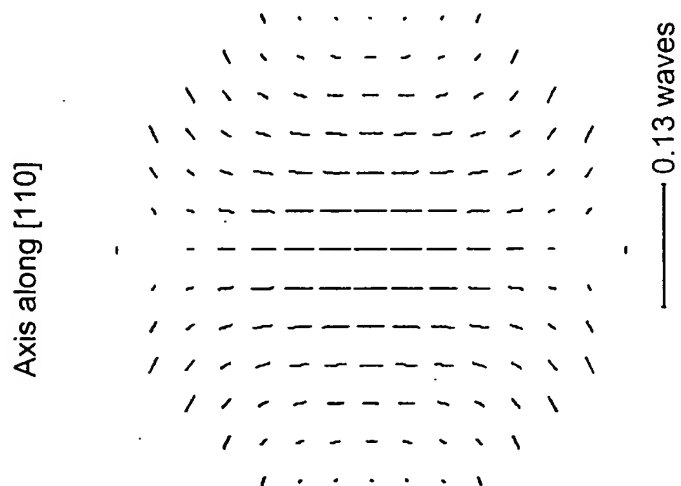


Figure 8B

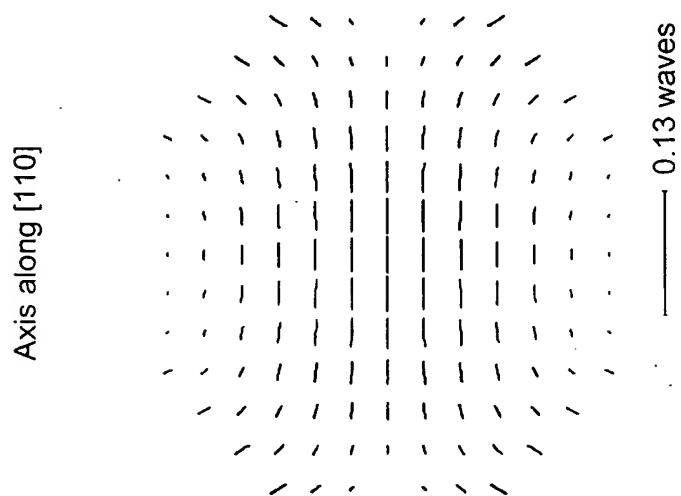


Figure 8A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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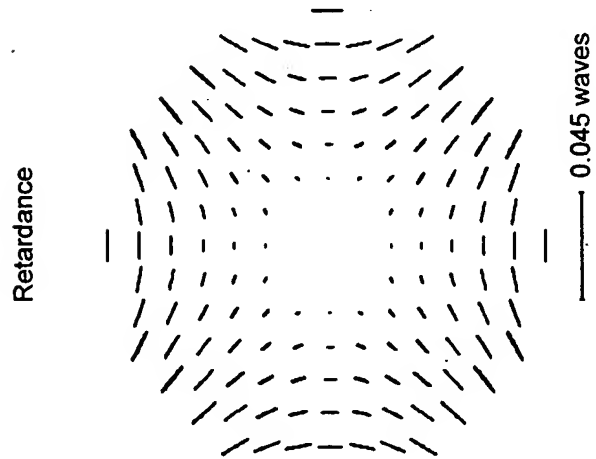


Figure 9C

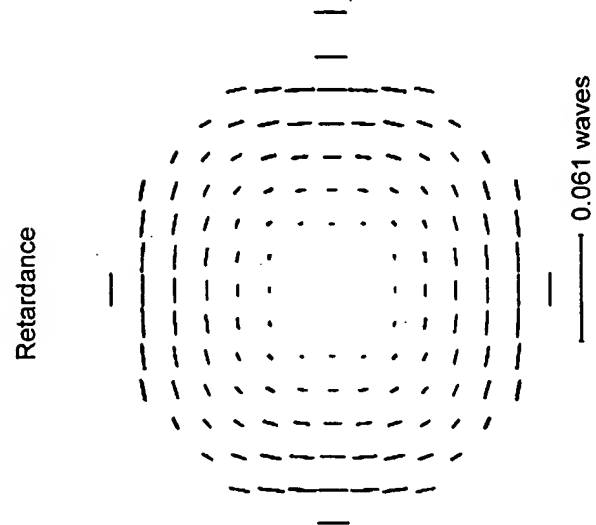


Figure 9B

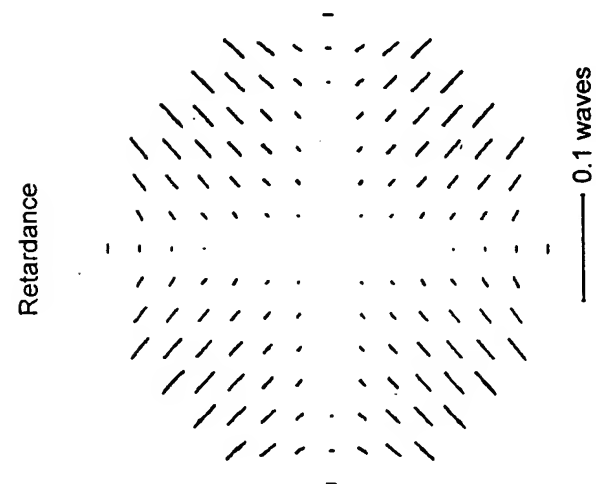


Figure 9A

*CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS*

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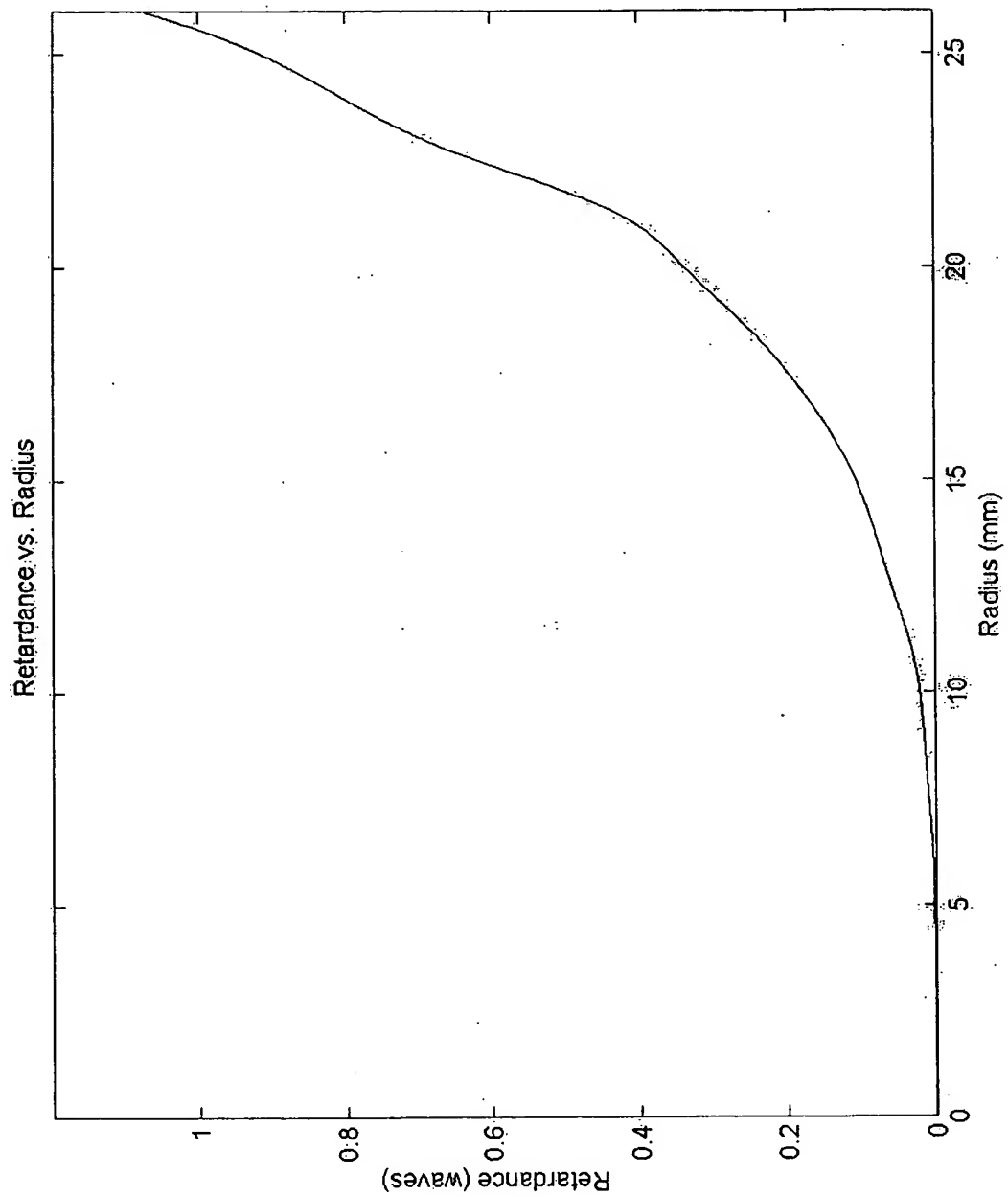


Figure 9D

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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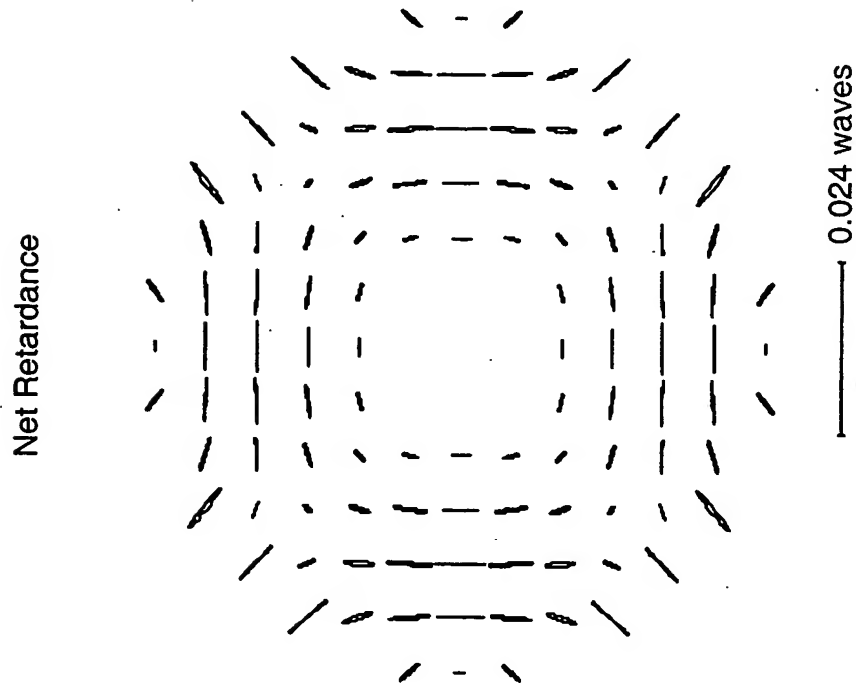


Figure 9F

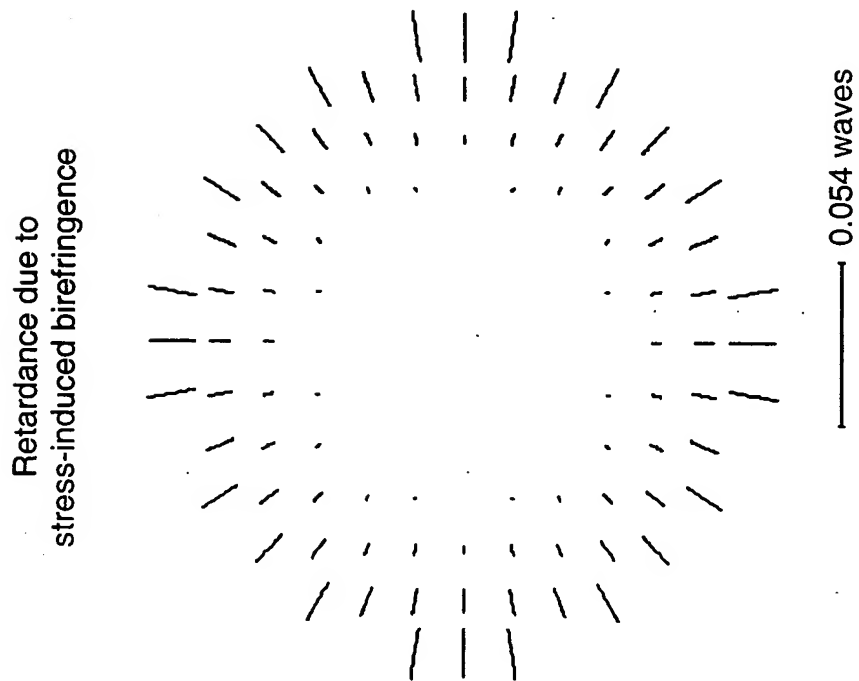


Figure 9E

*CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS*

Hoffman, et al.

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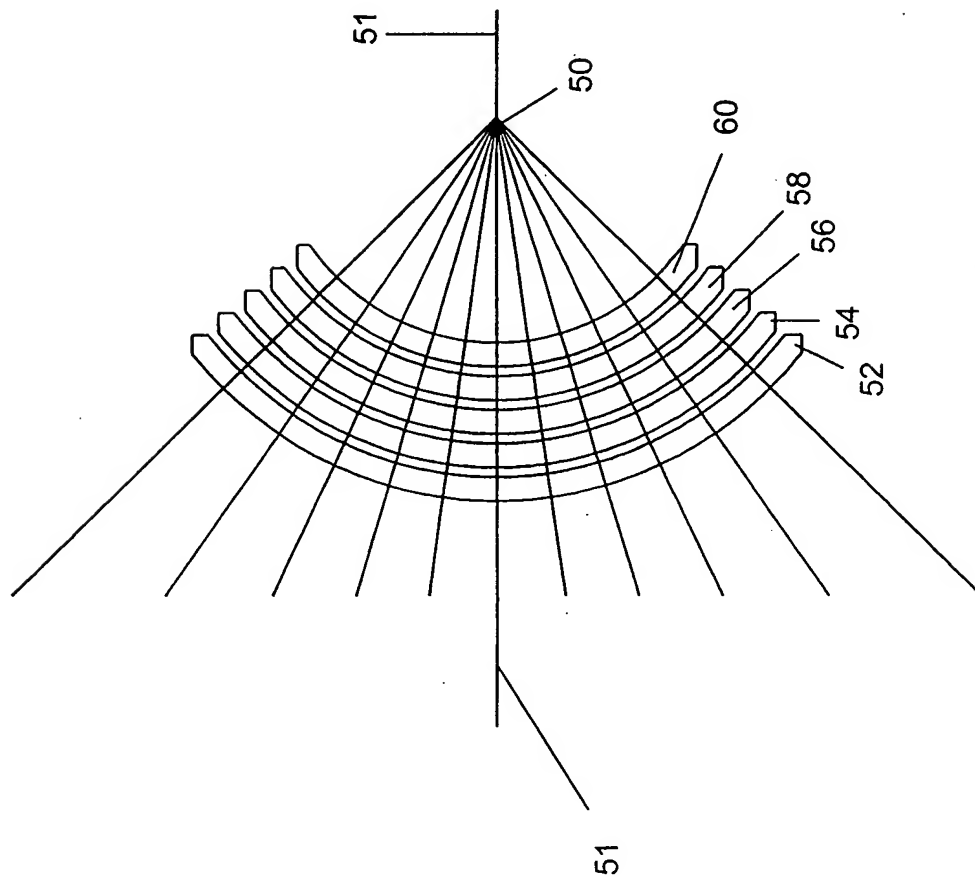


Figure 10

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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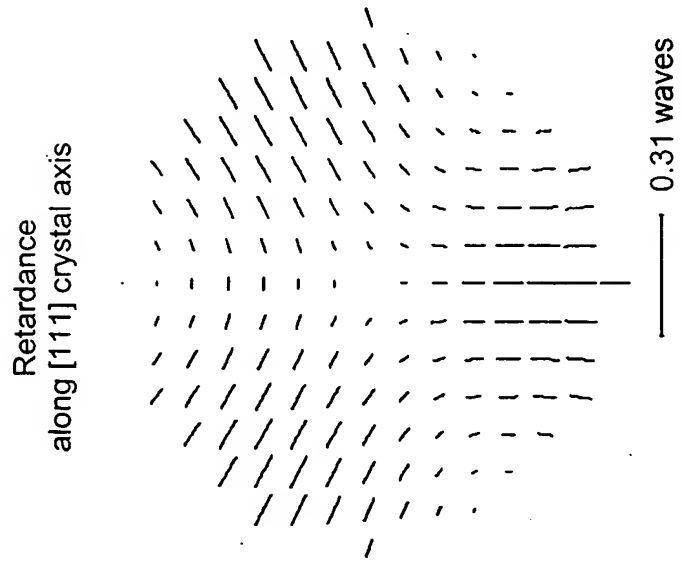


Figure 11C

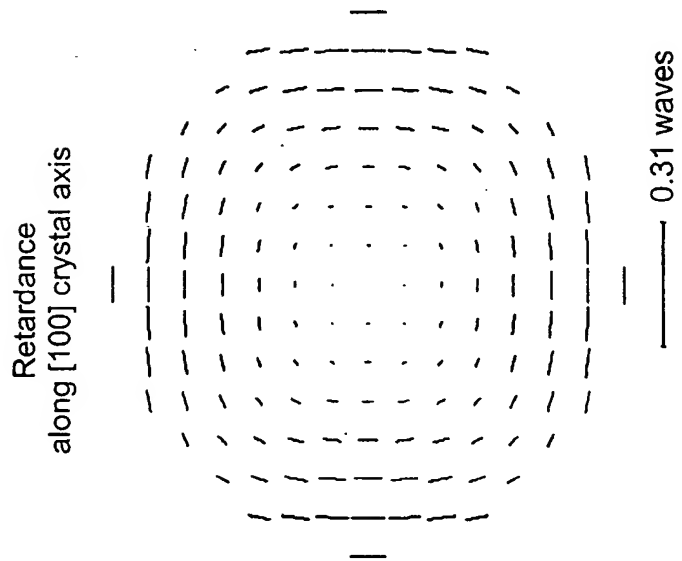


Figure 11B

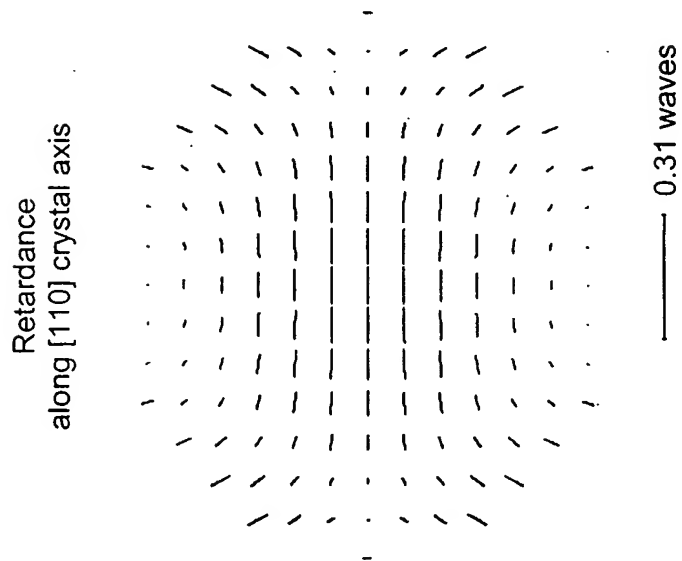


Figure 11A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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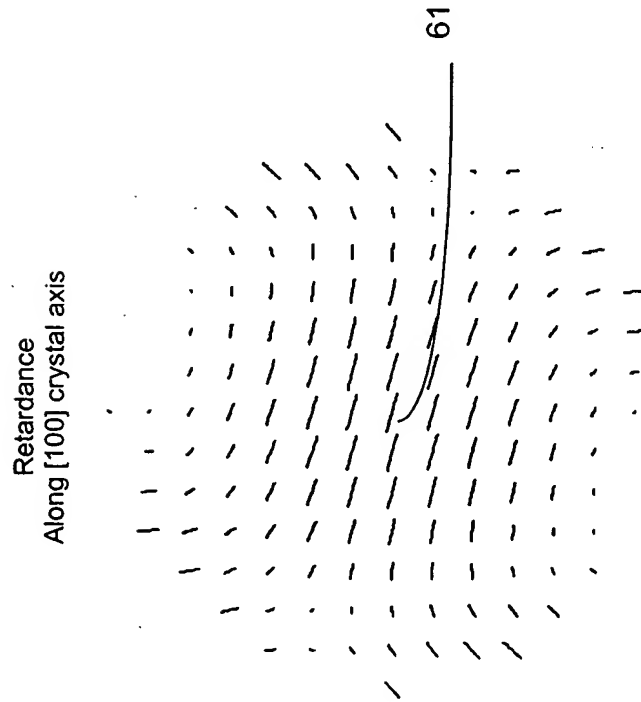


Figure 12B

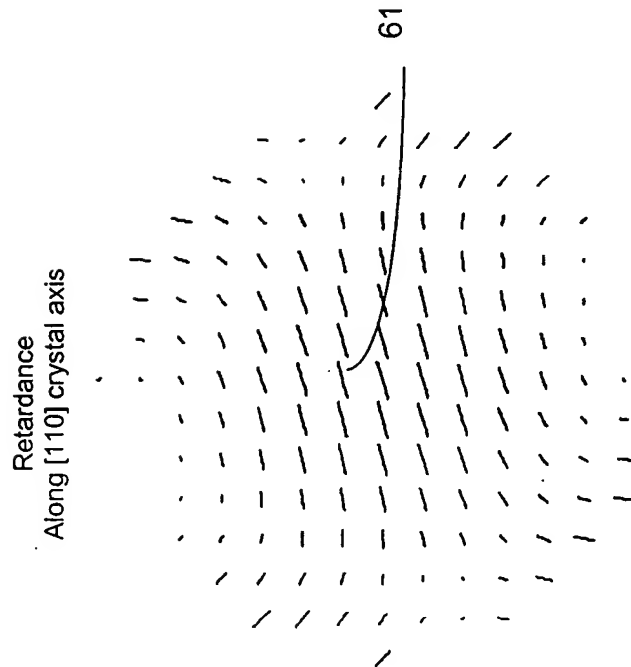
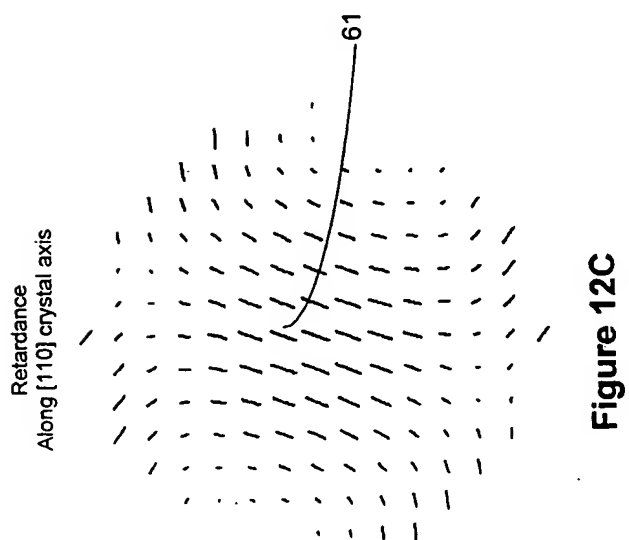
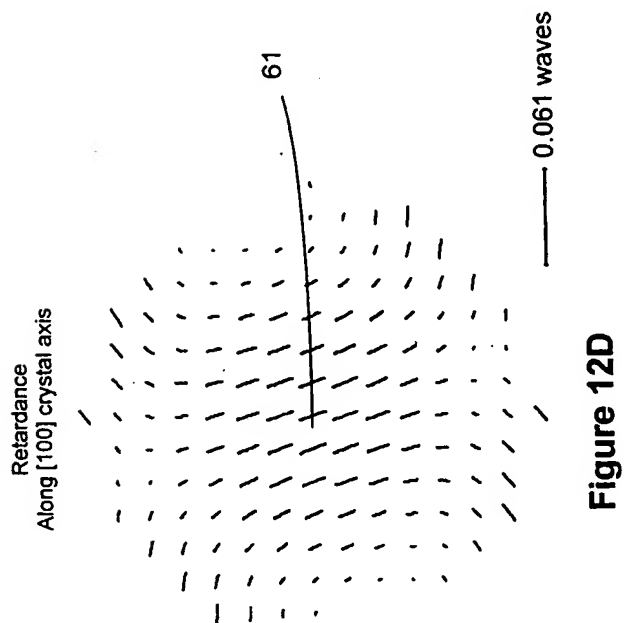


Figure 12A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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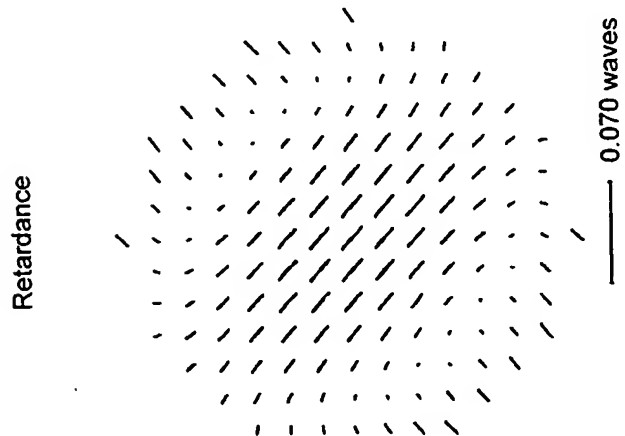


Figure 13C

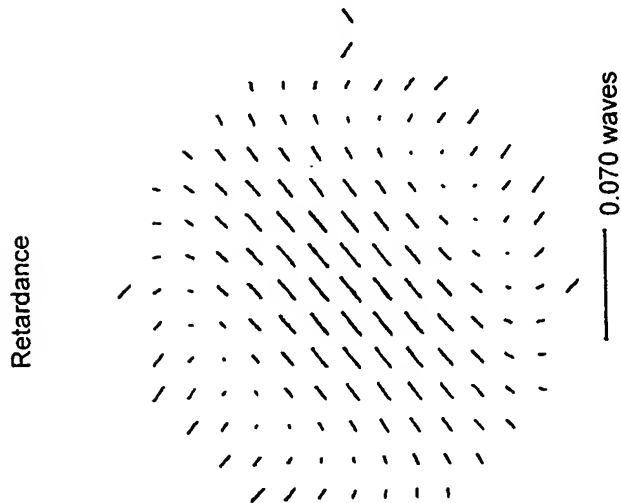


Figure 13B

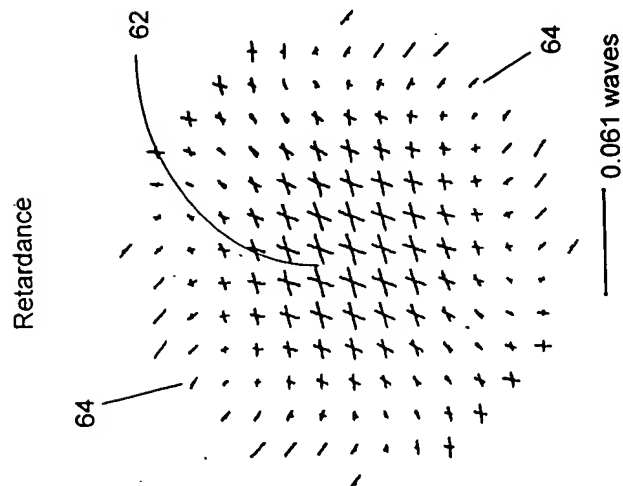


Figure 13A

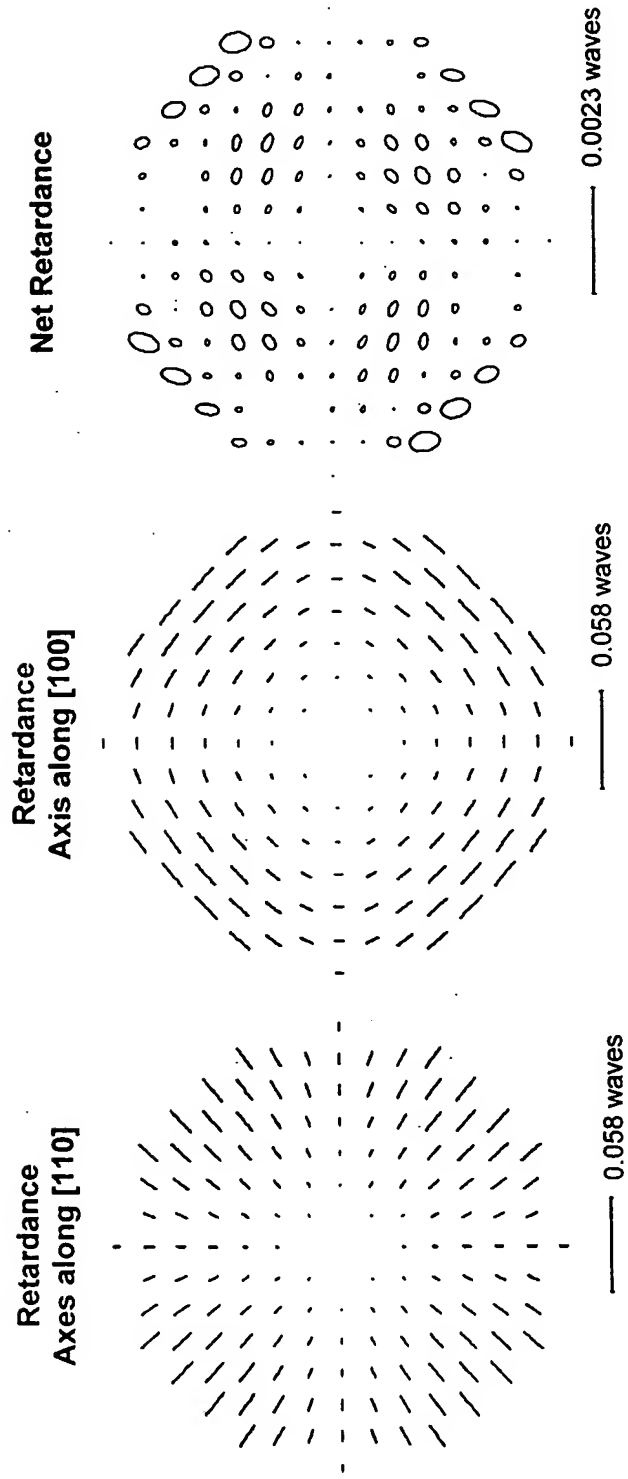


Figure 14A

Figure 14B

Figure 14C

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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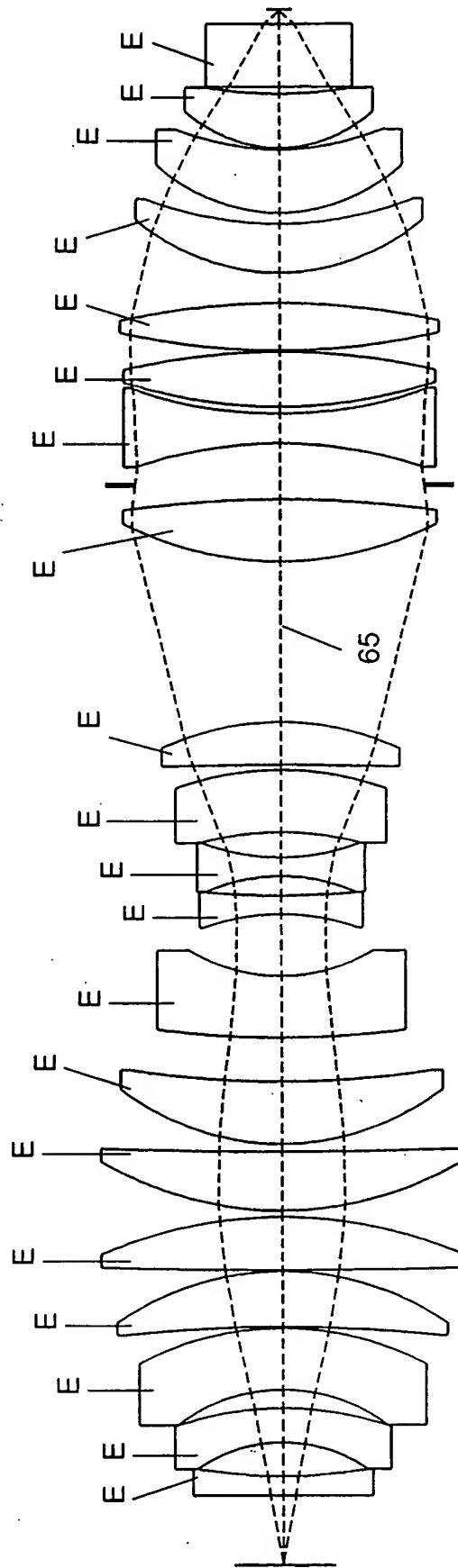


Figure 15

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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Retardance

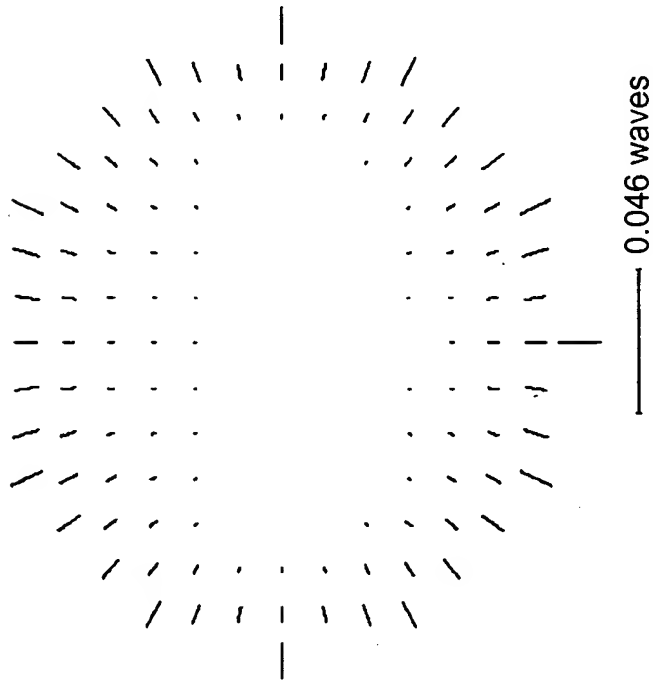


Figure 16B

Retardance

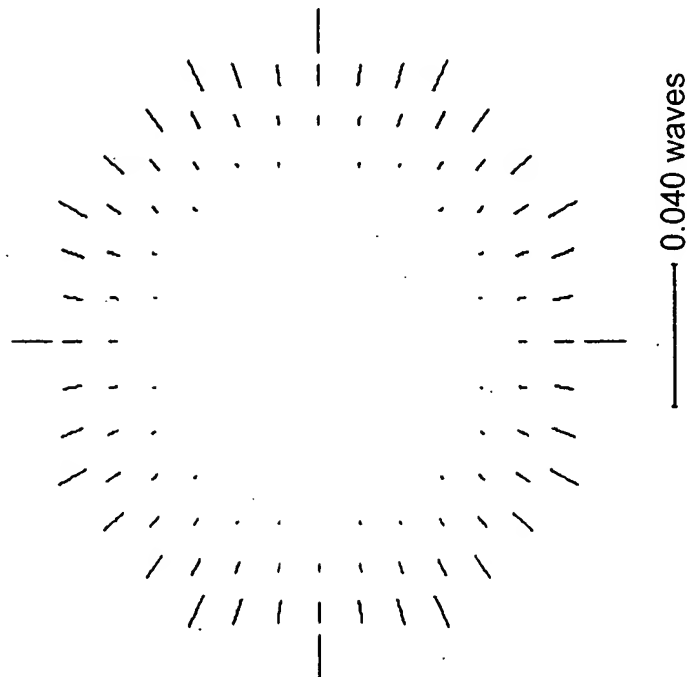


Figure 16A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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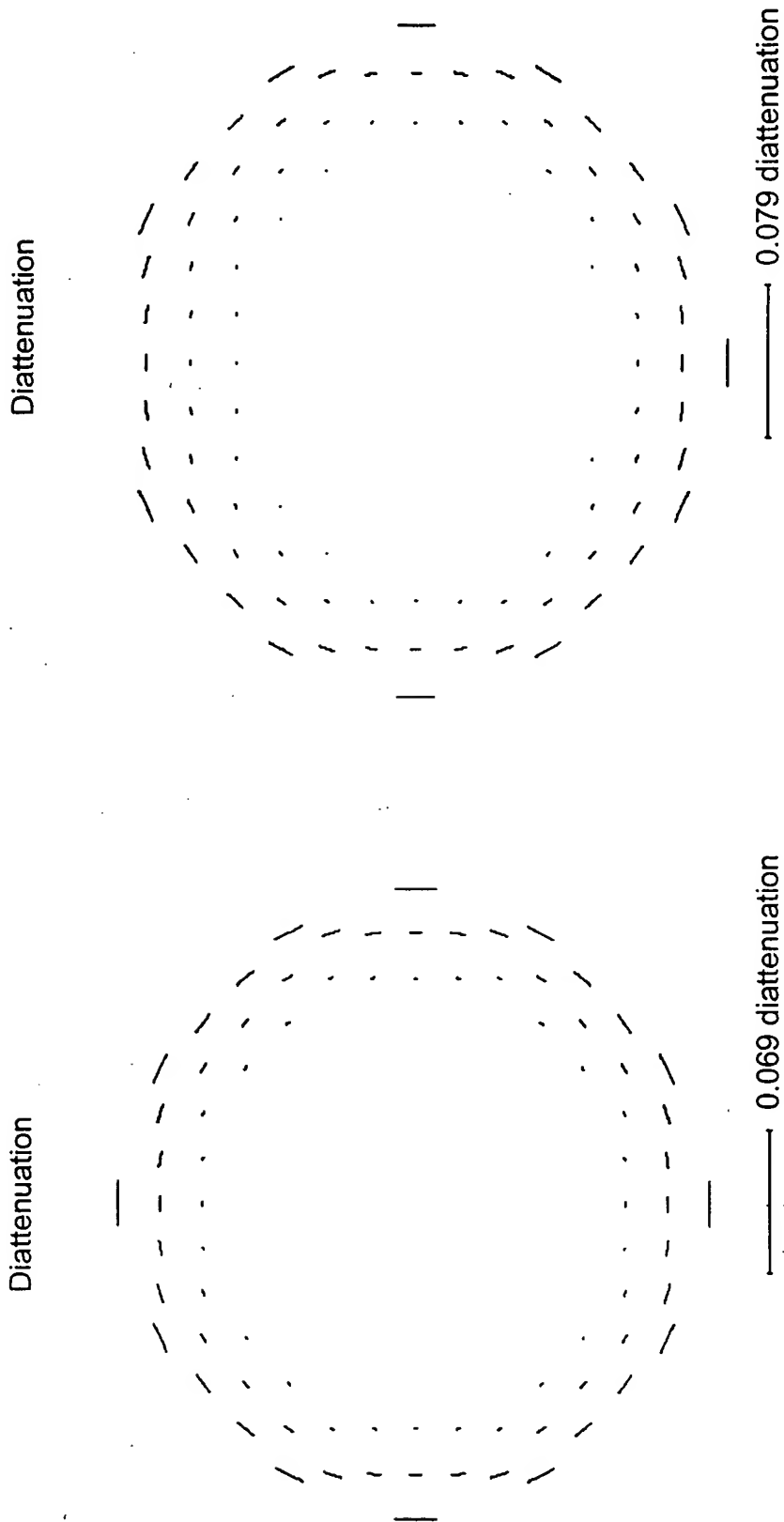


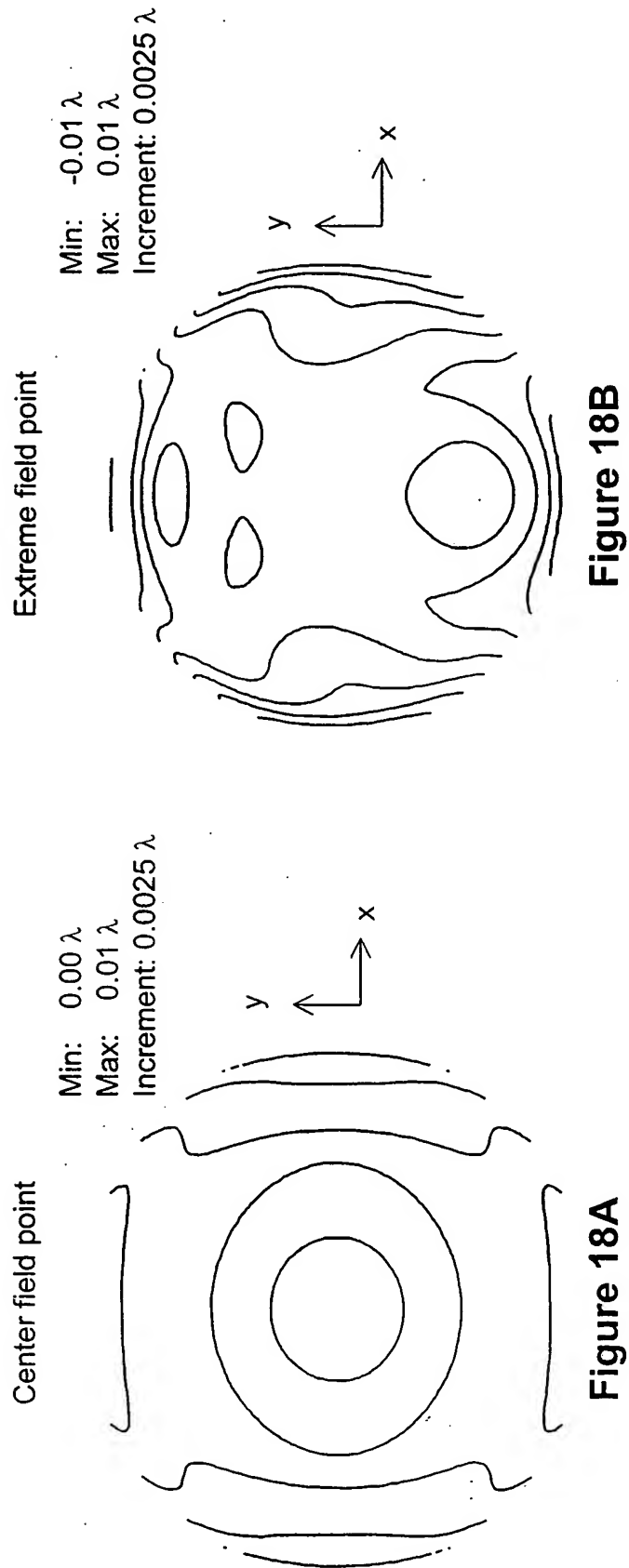
Figure 17B

Figure 17A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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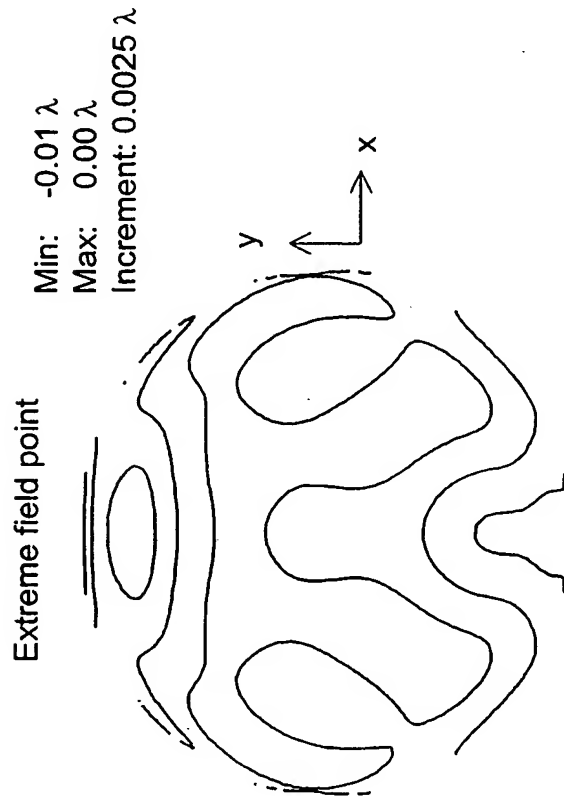


Figure 18D

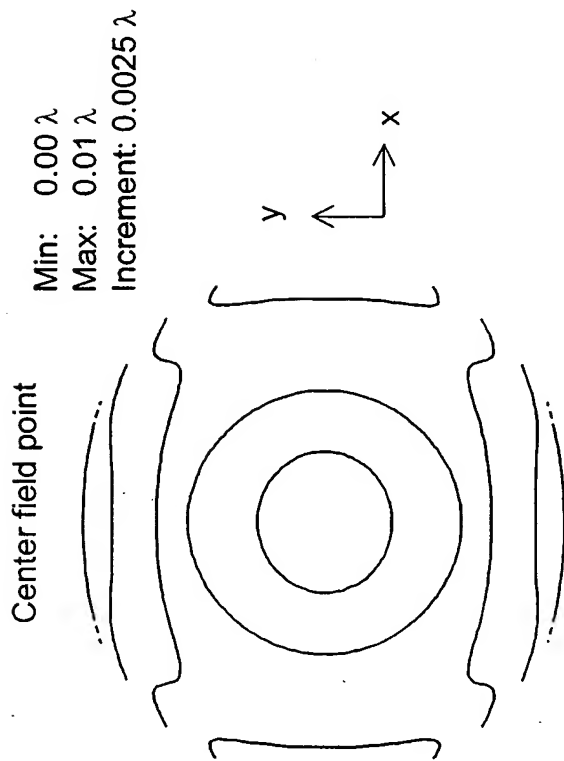


Figure 18C

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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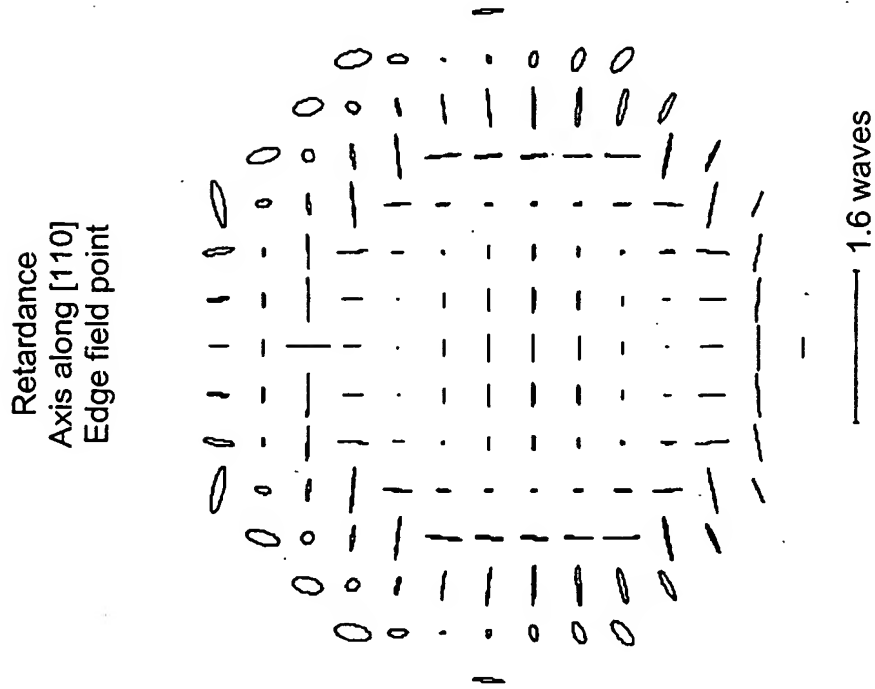


Figure 19B

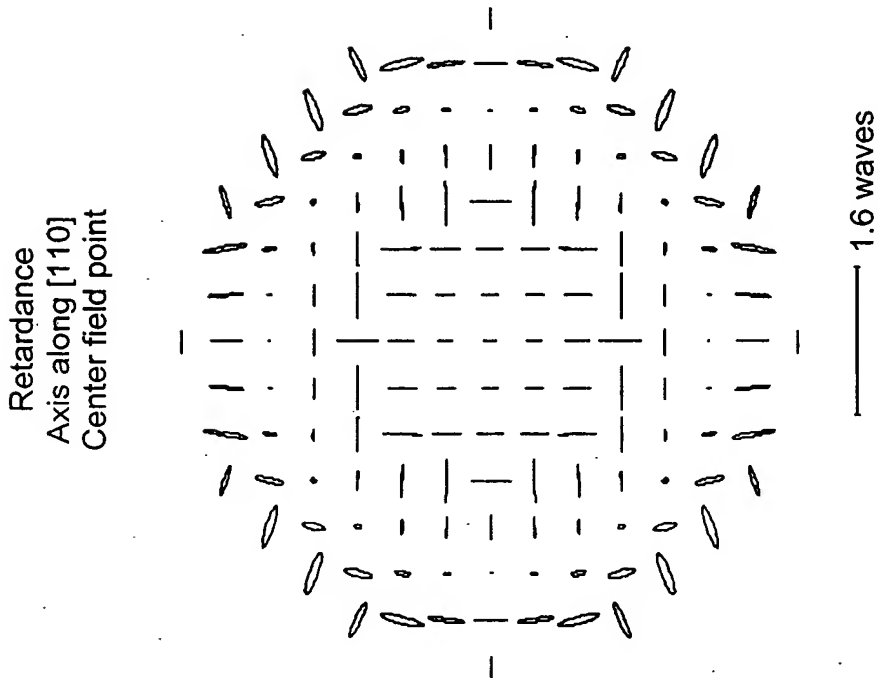


Figure 19A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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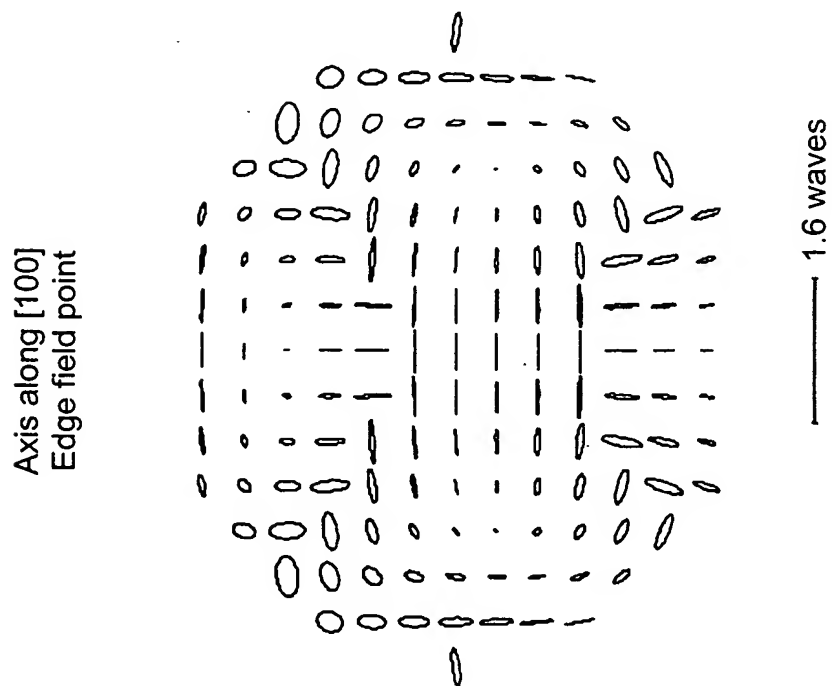


Figure 20B

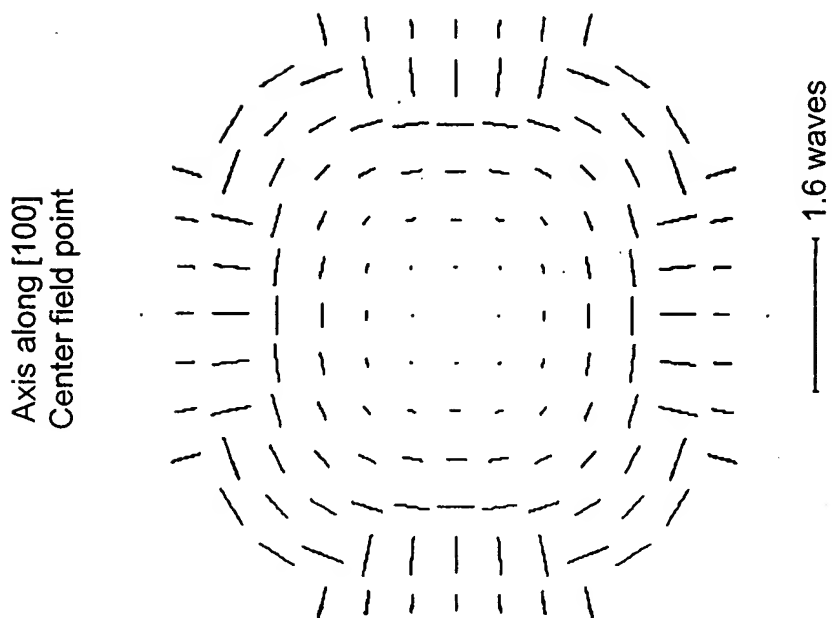


Figure 20A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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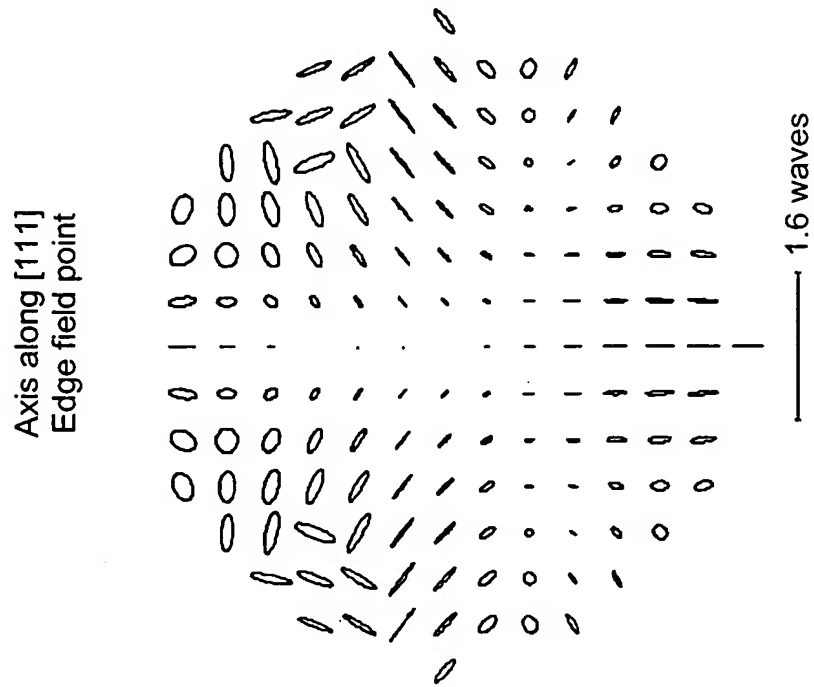


Figure 21B

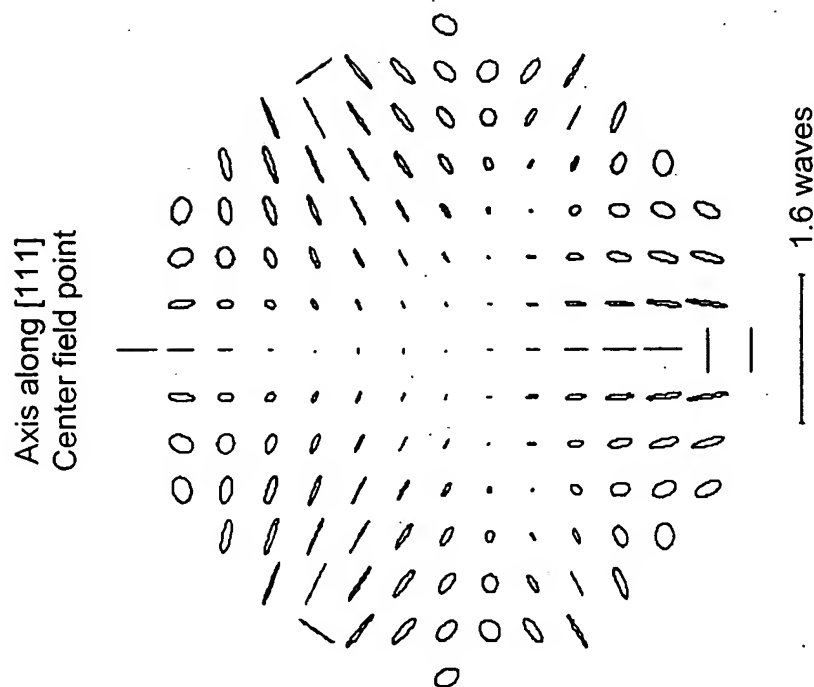


Figure 21A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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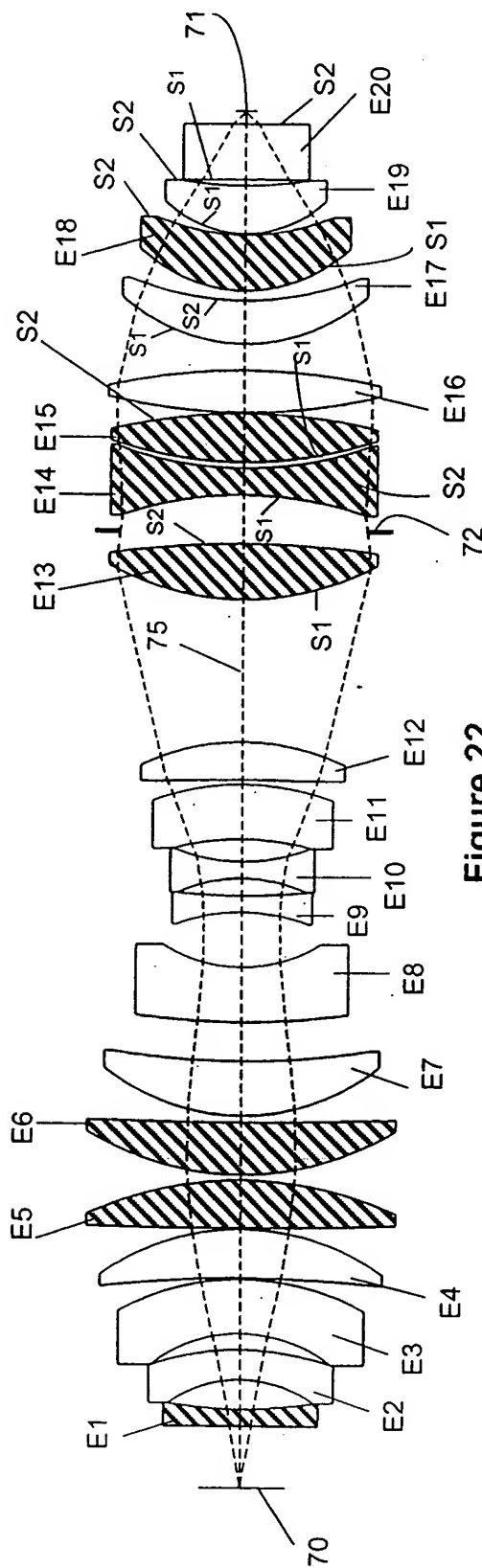


Figure 22

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

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Extreme Field Point

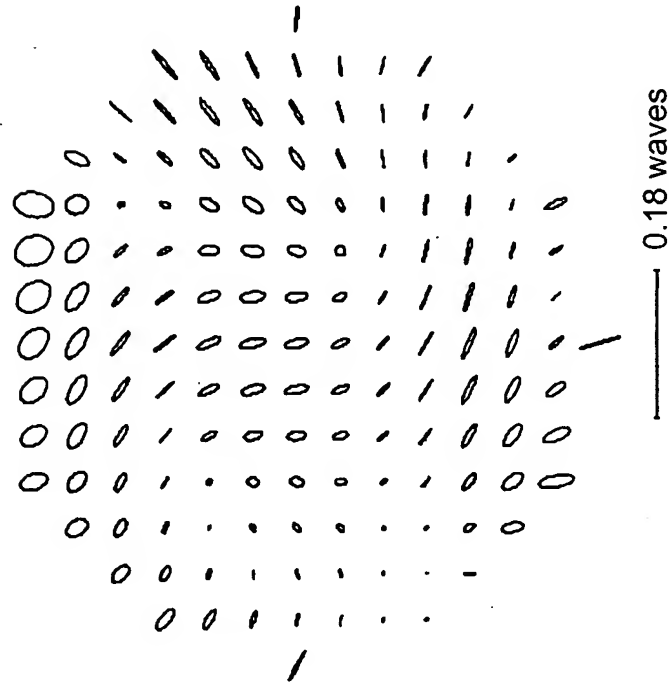


Figure 23B

Center Field Point

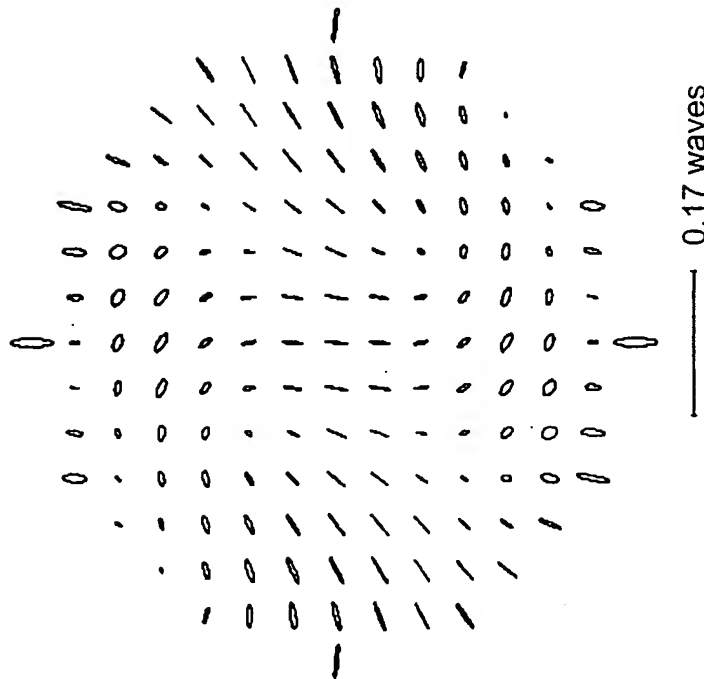


Figure 23A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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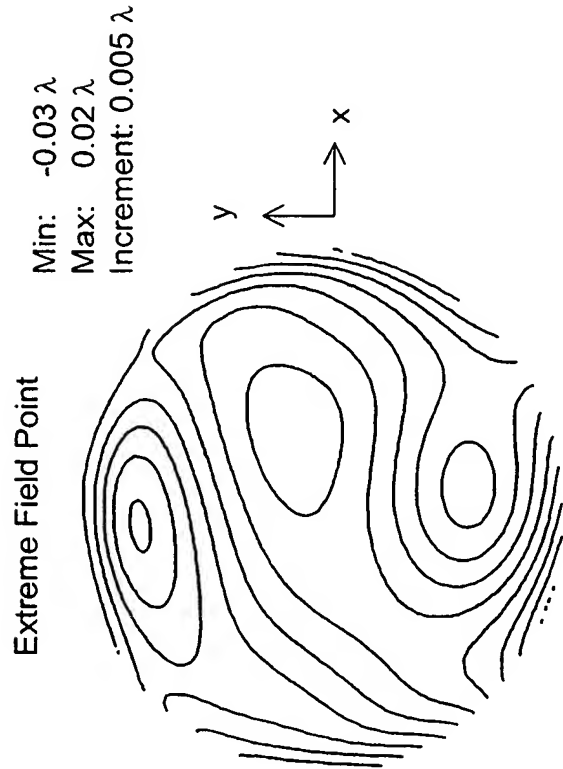


Figure 24B

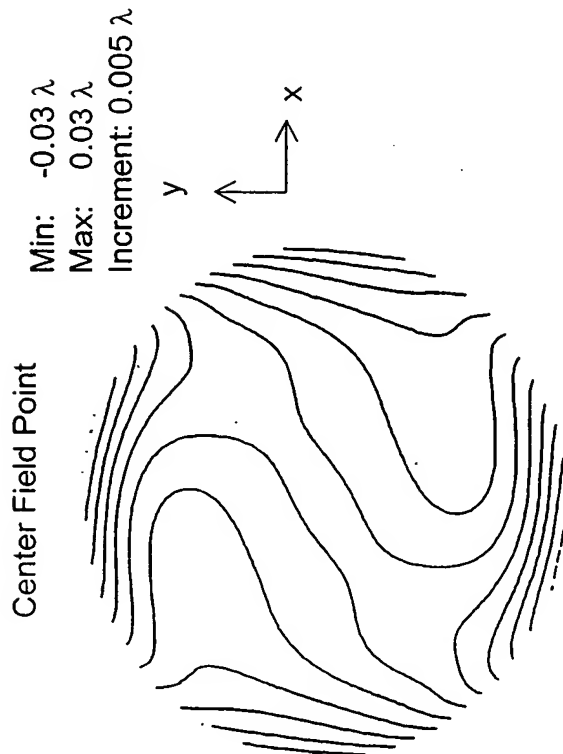


Figure 24A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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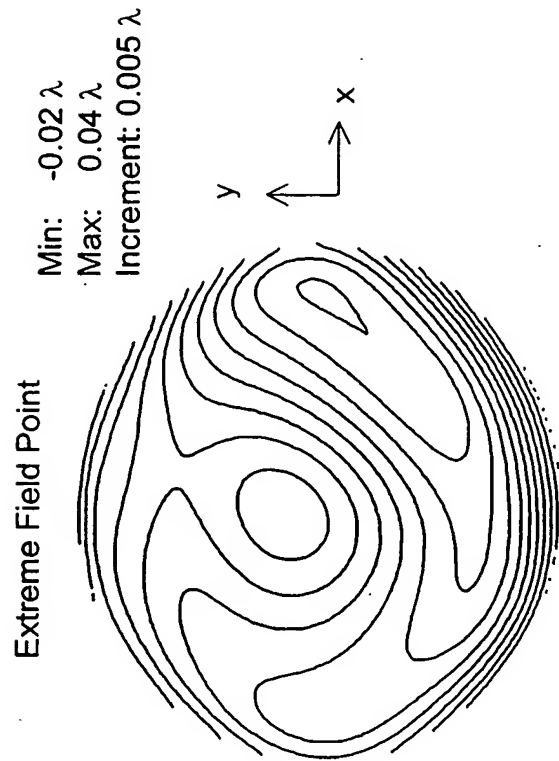


Figure 24D

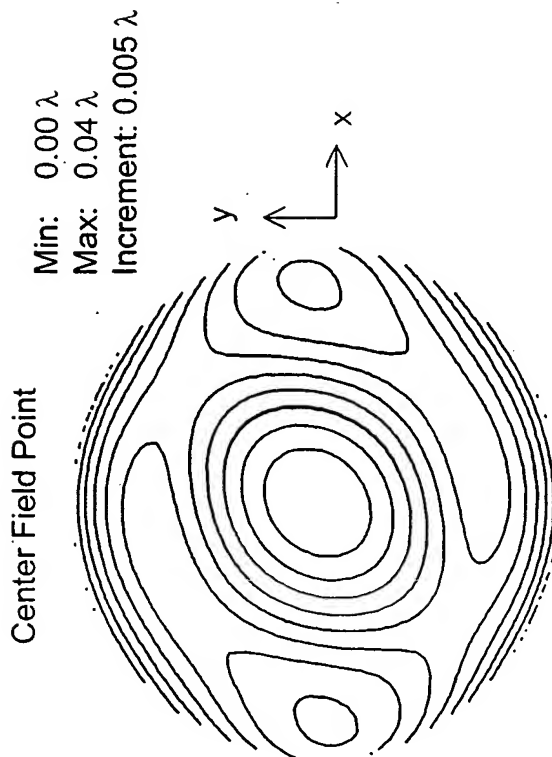


Figure 24C

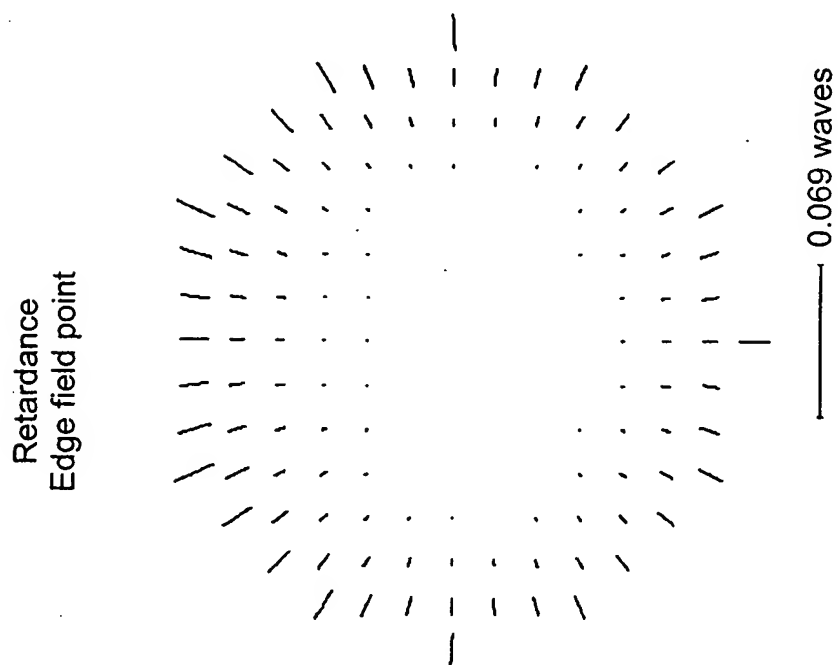


Figure 25B

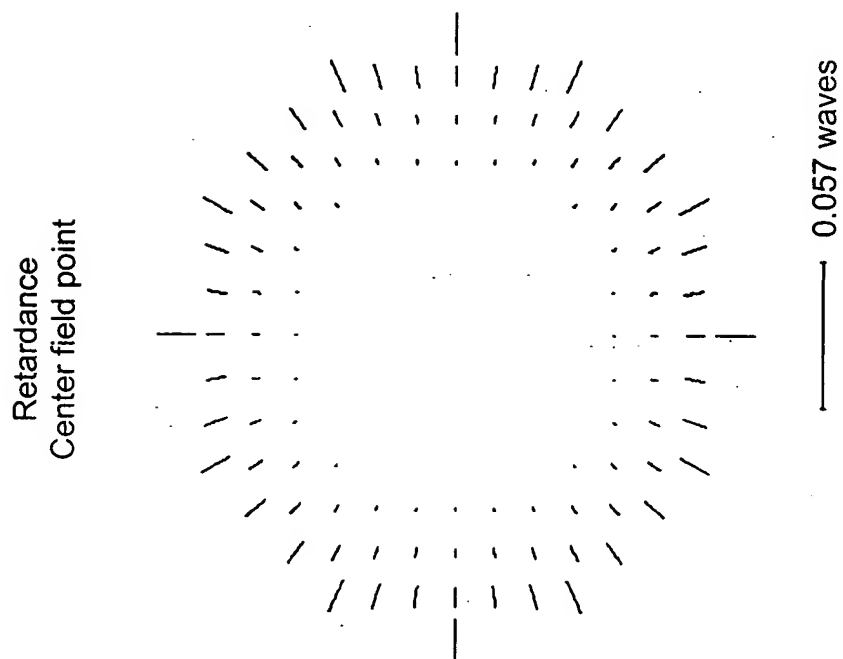


Figure 25A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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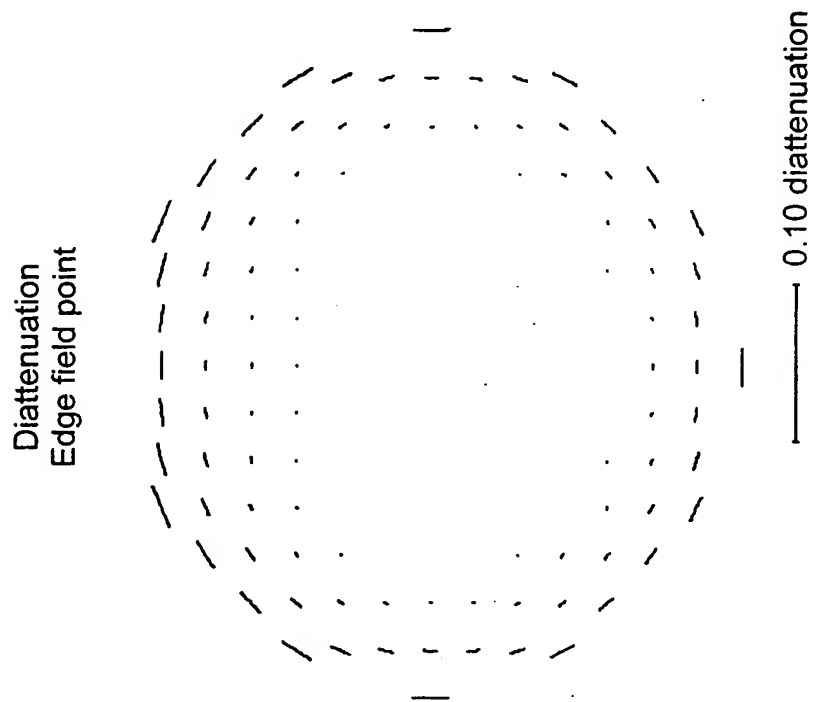


Figure 26B

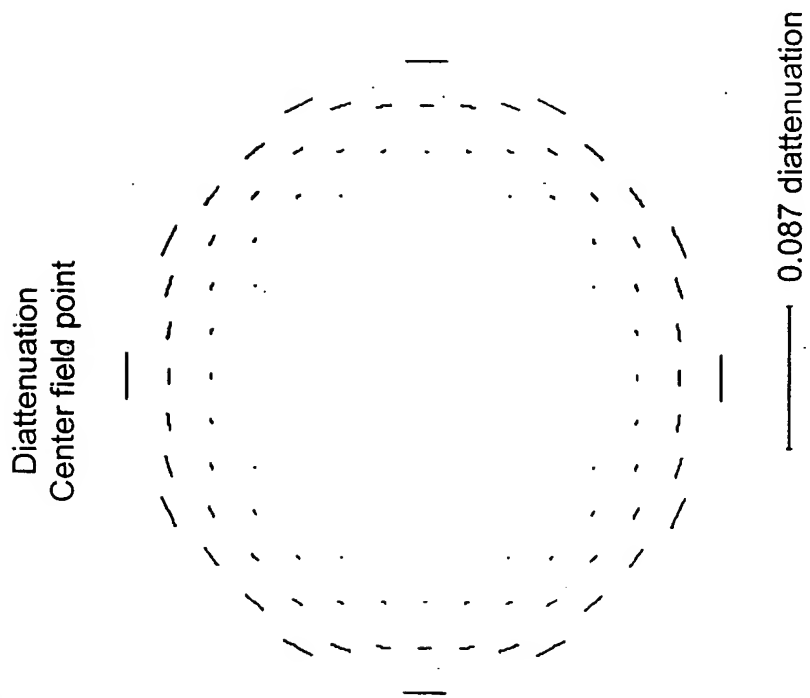


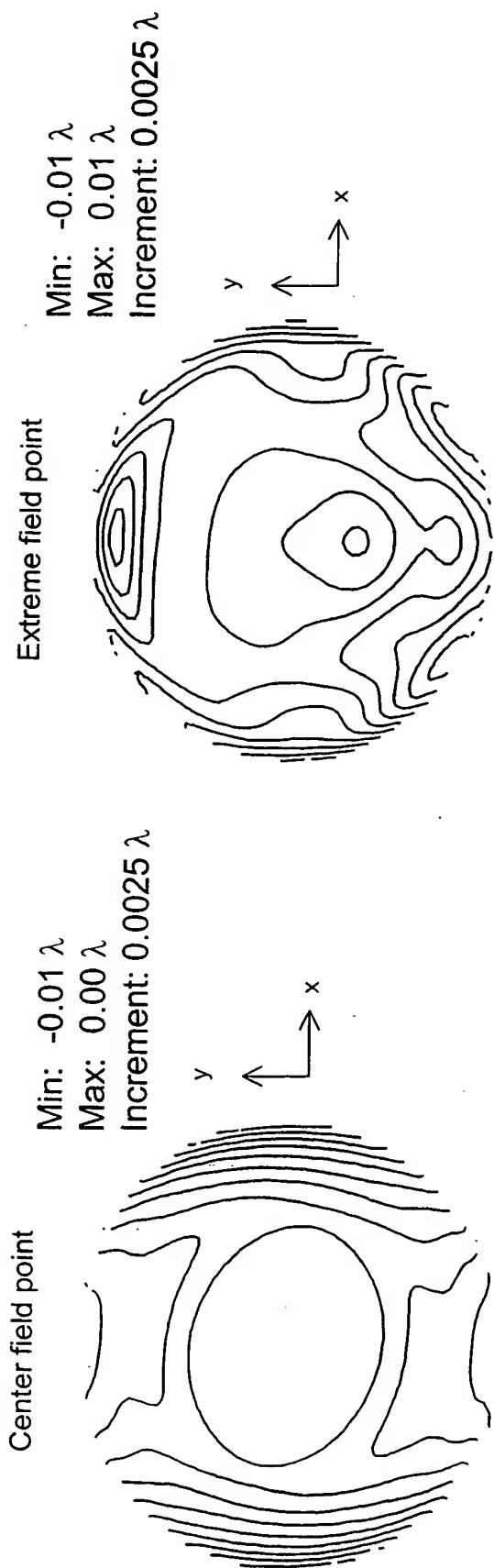
Figure 26A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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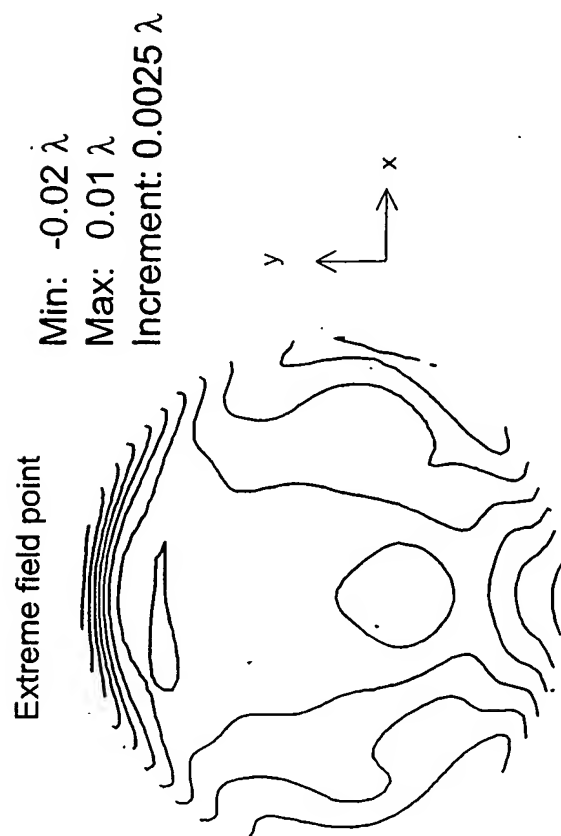


Figure 27C

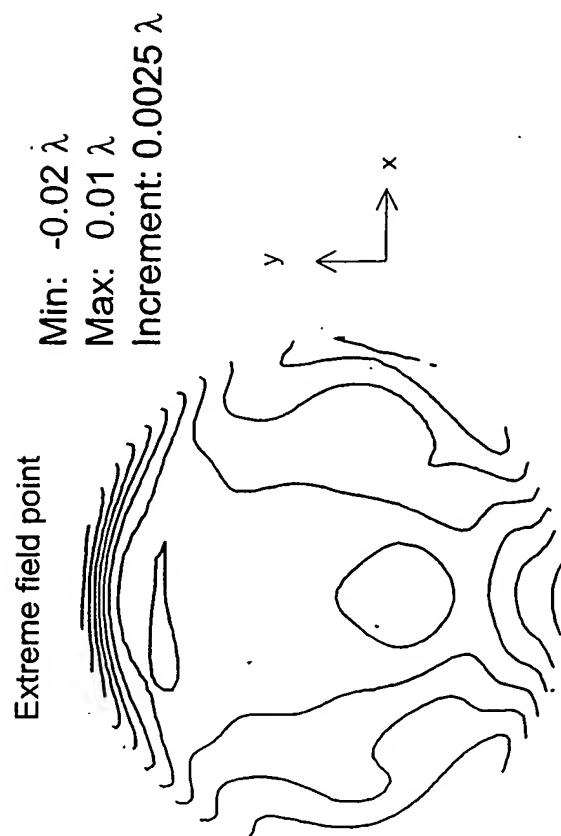


Figure 27D

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

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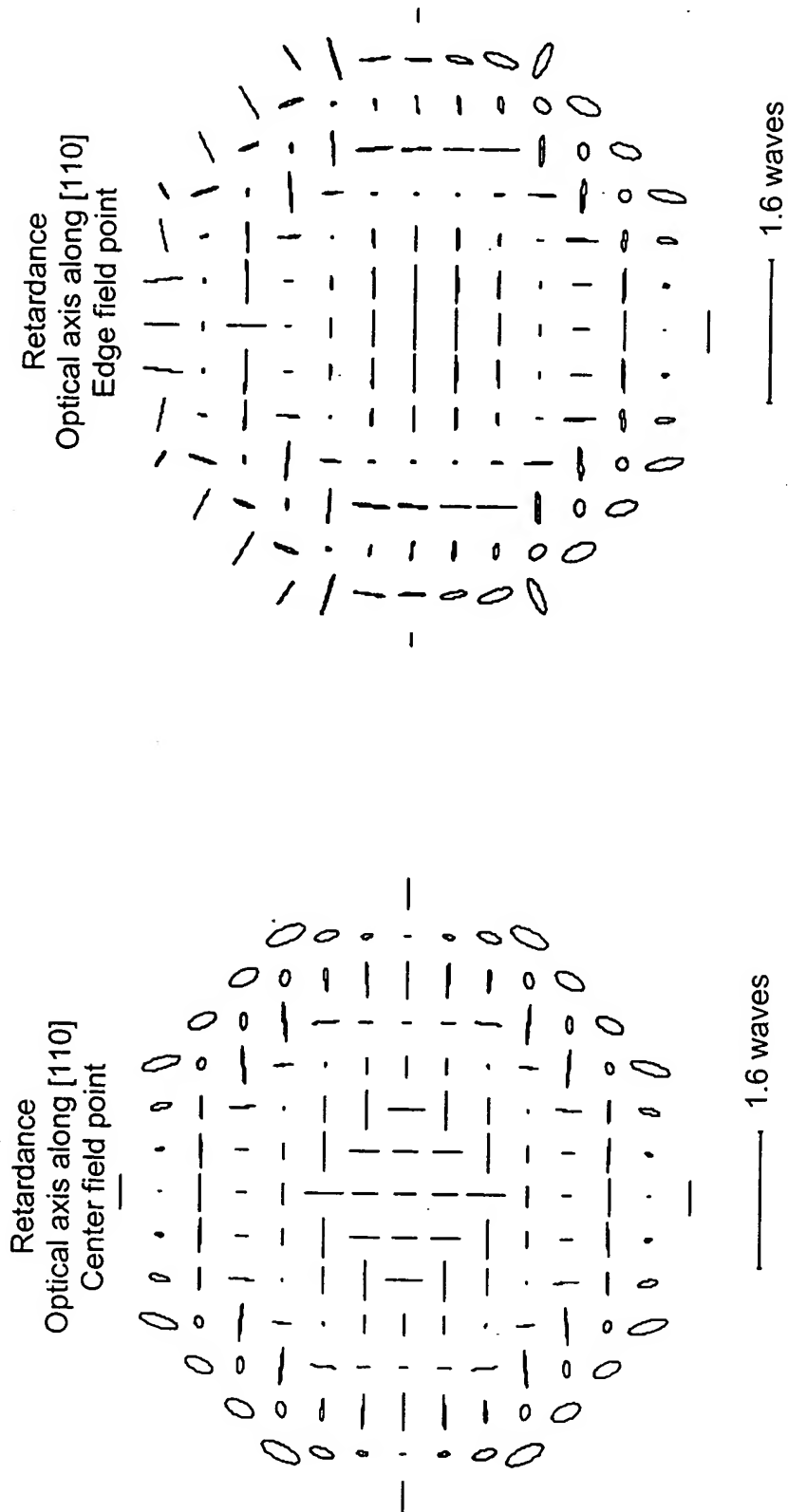


Figure 28A

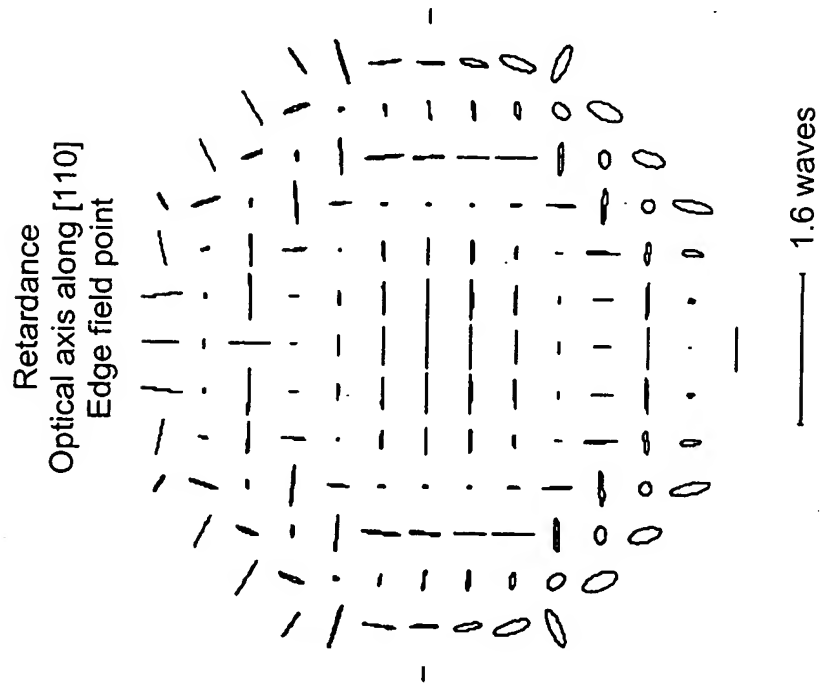


Figure 28B

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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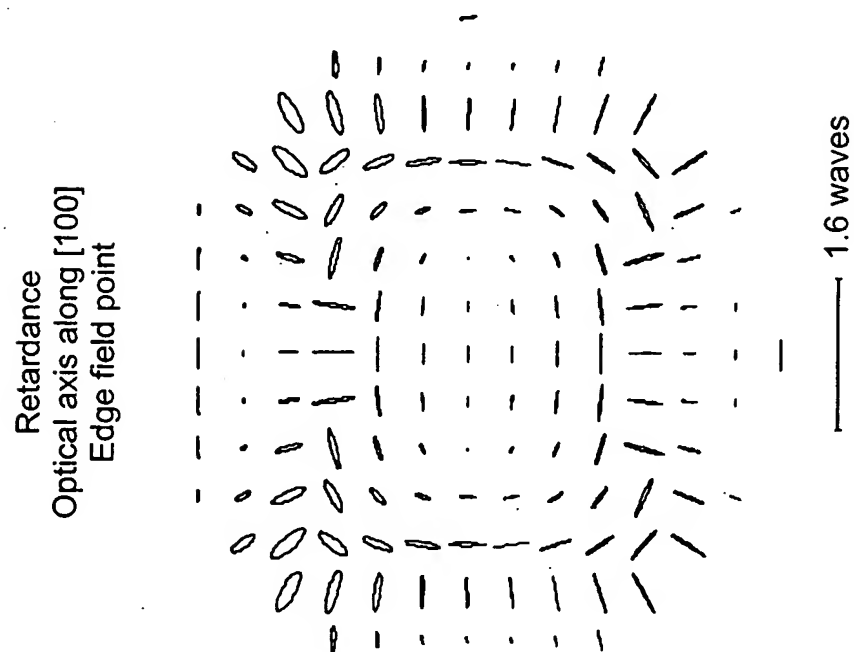


Figure 29B

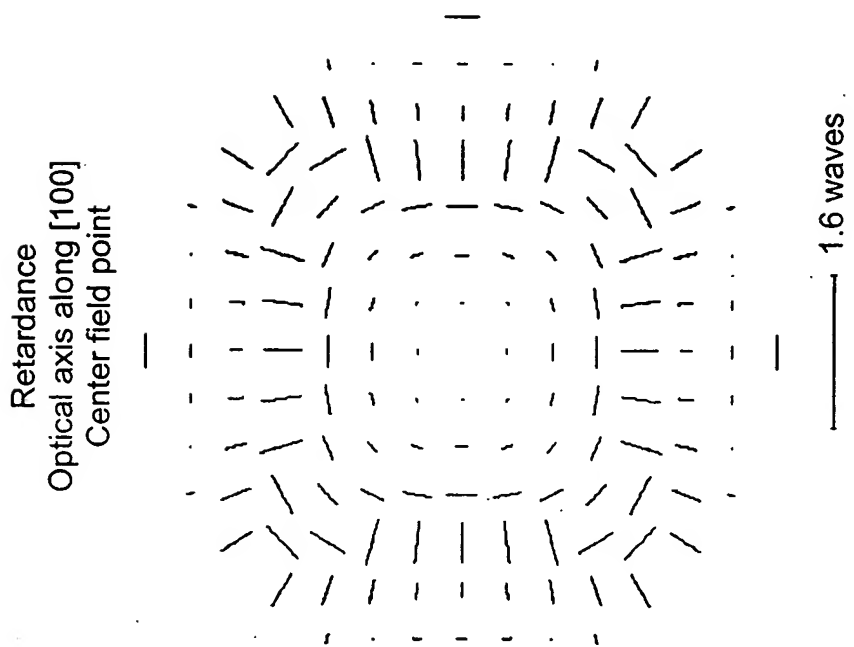


Figure 29A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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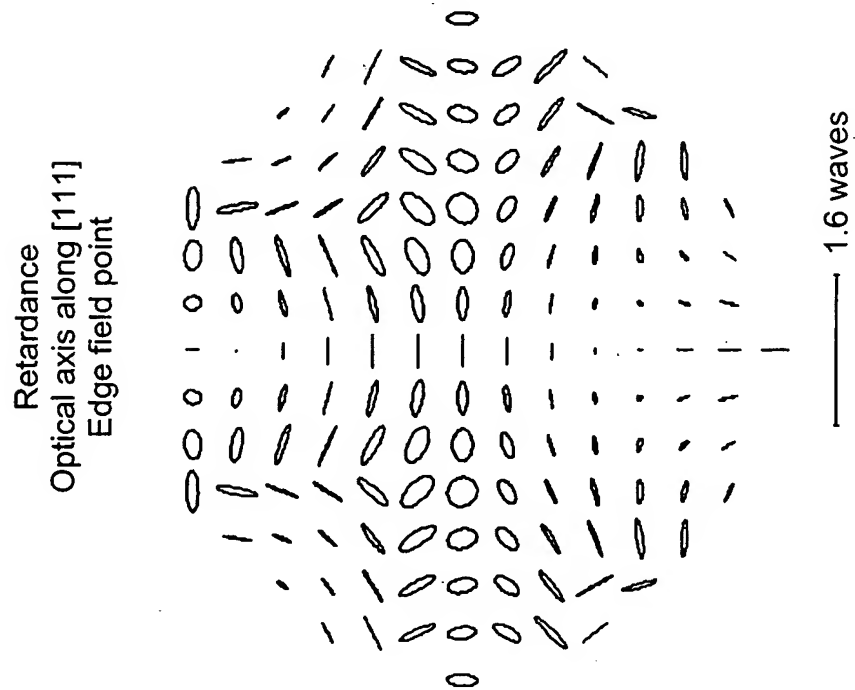


Figure 30B

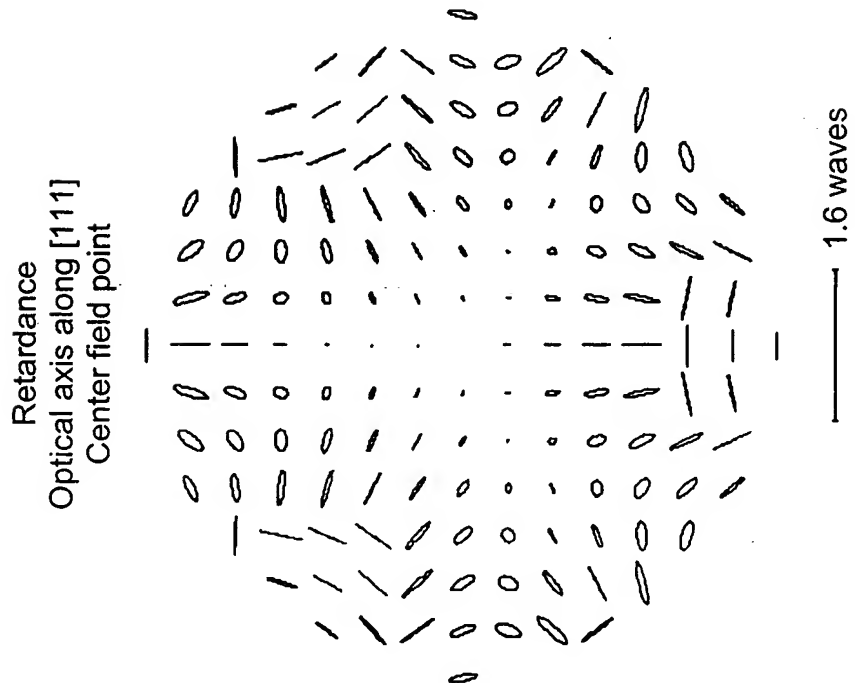


Figure 30A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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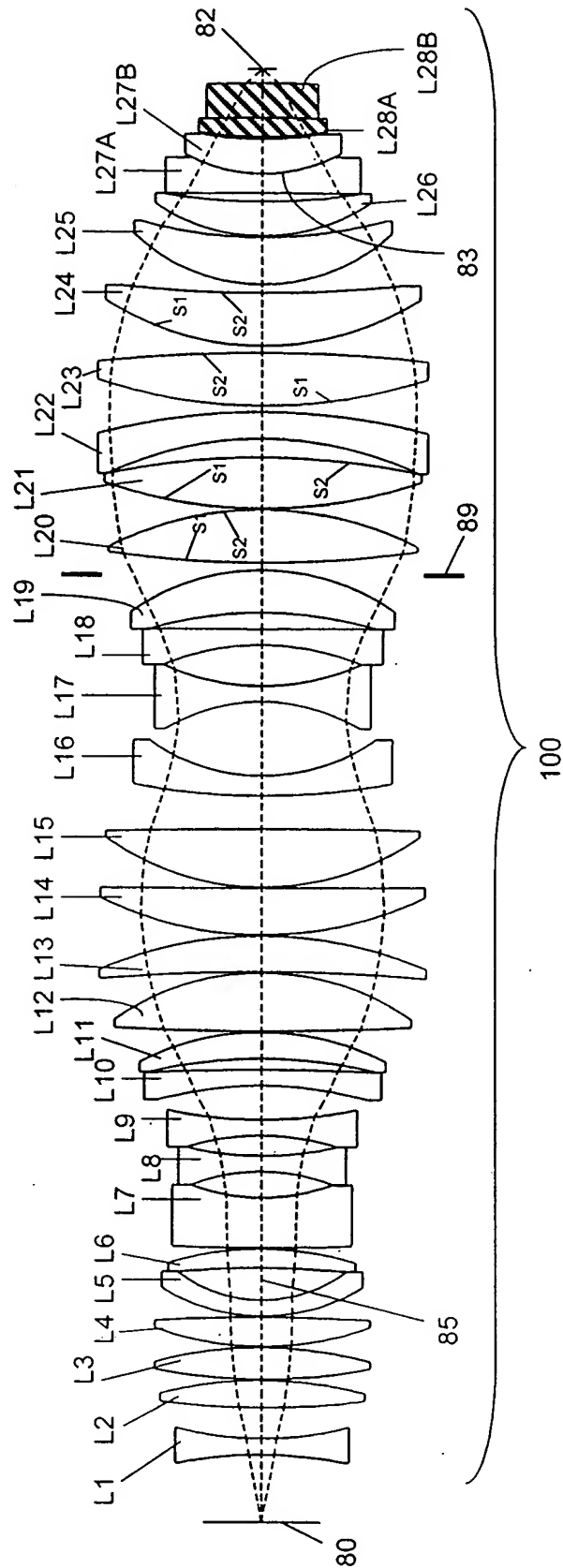


Figure 31

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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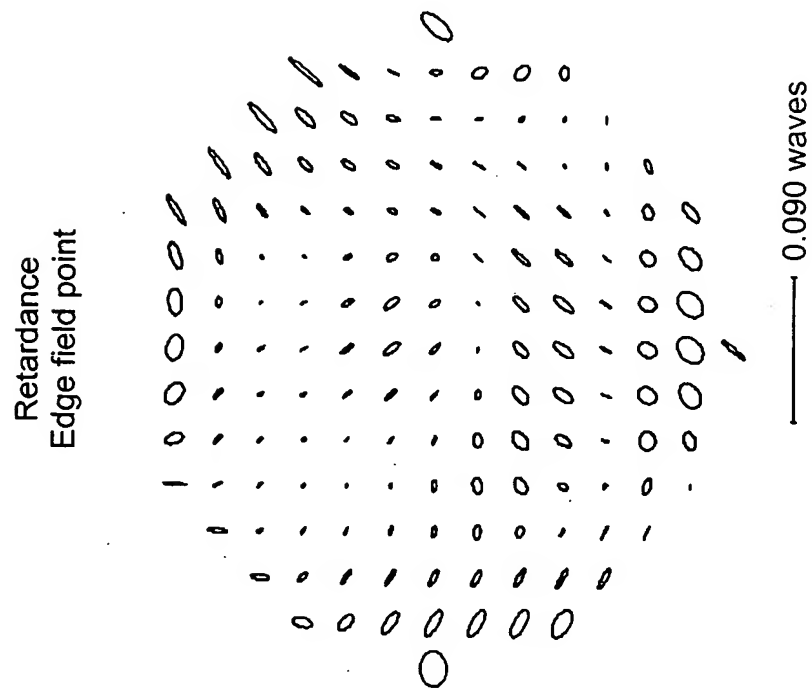


Figure 32B

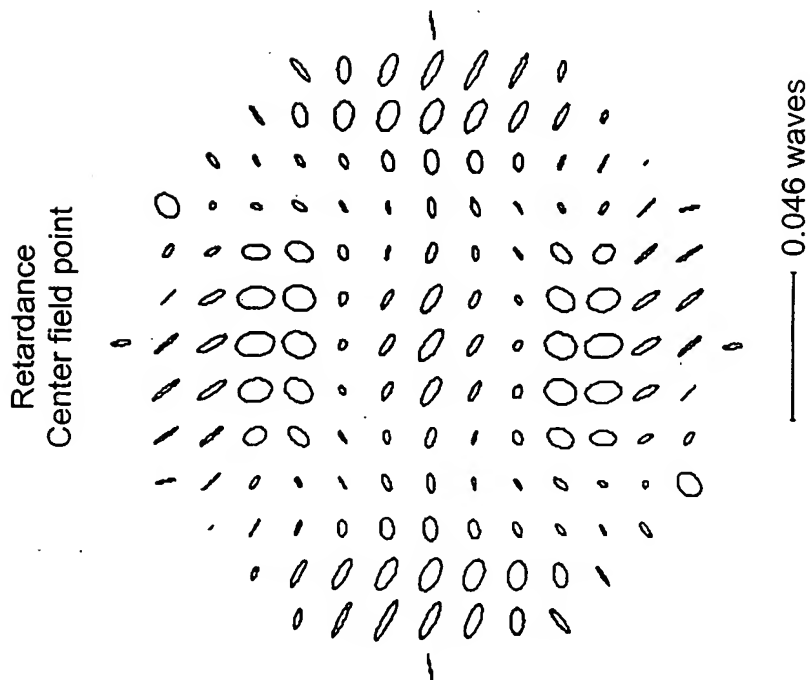


Figure 32A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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Min: -0.02λ
Max: 0.03λ
Increment: 0.0025λ

Extreme field point

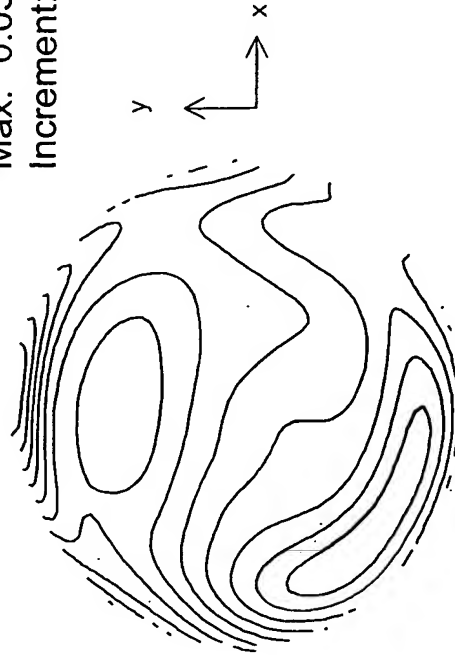


Figure 33B

Min: -0.01λ
Max: 0.02λ
Increment: 0.0025λ

Center field point

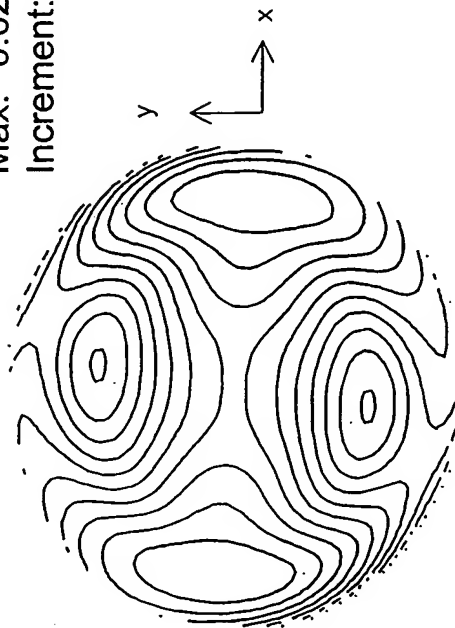


Figure 33A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
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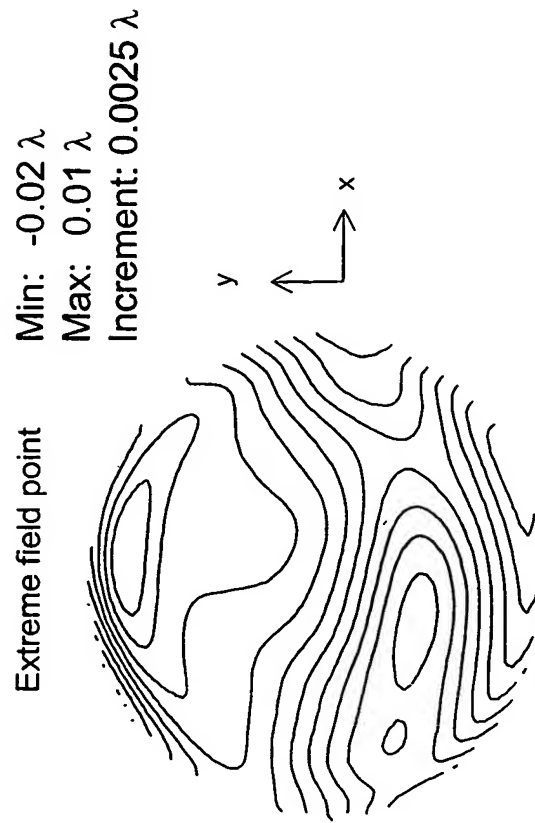


Figure 33C

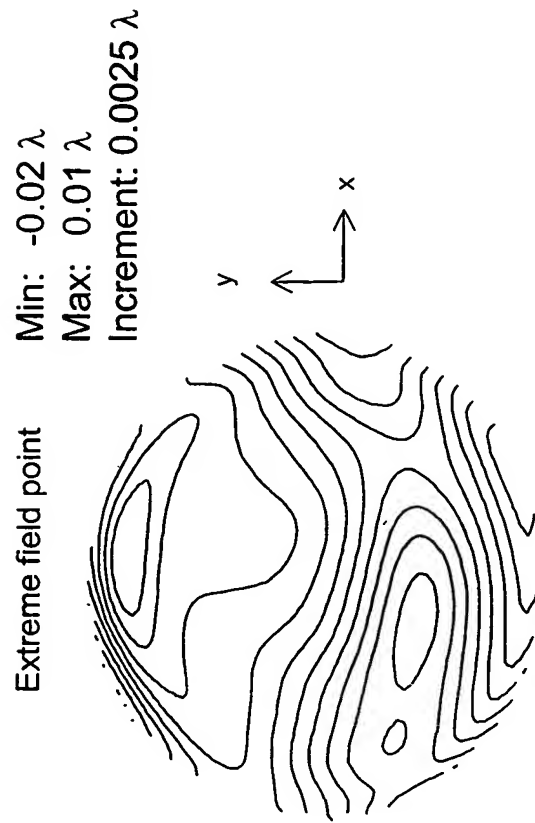


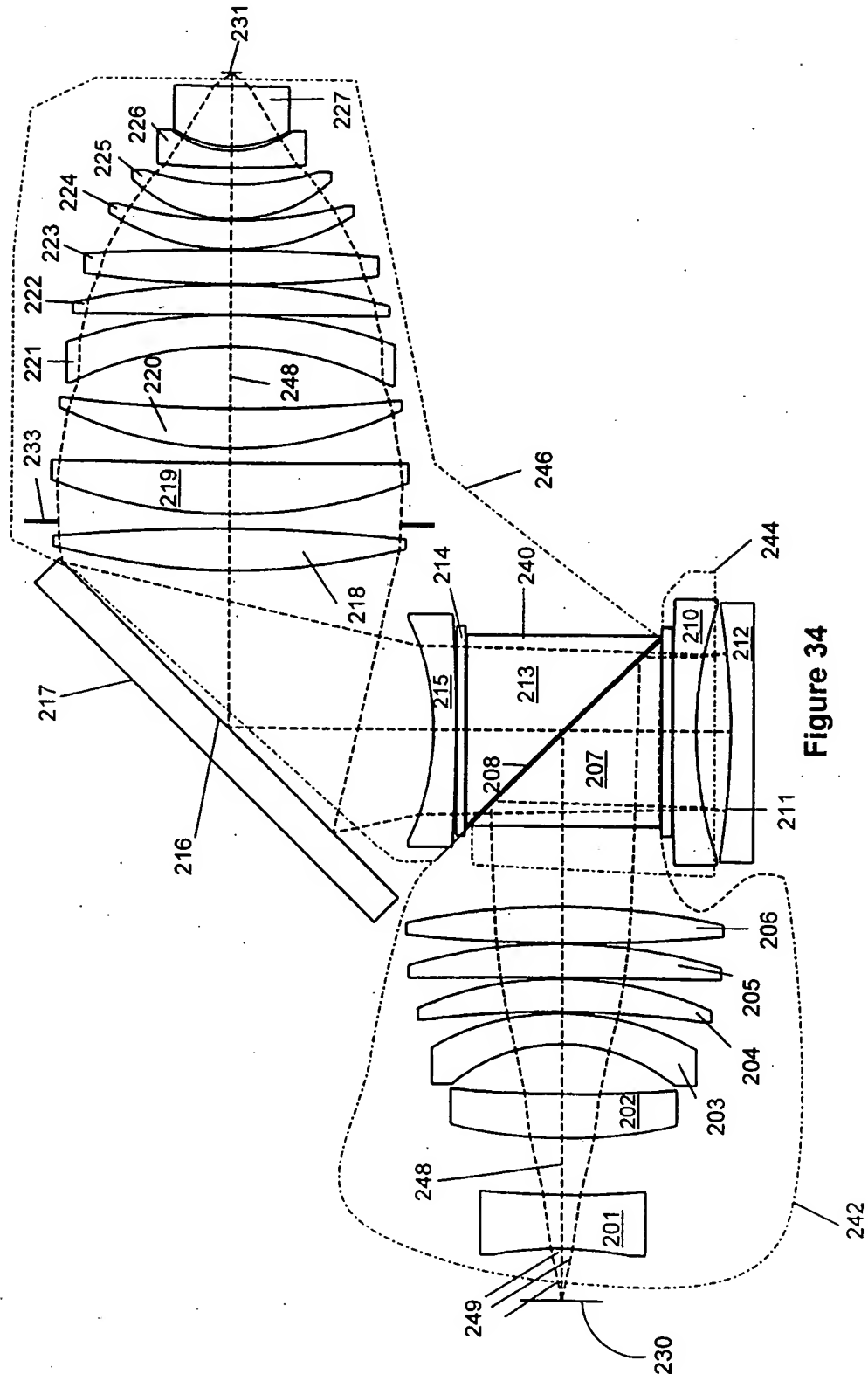
Figure 33D

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2



CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

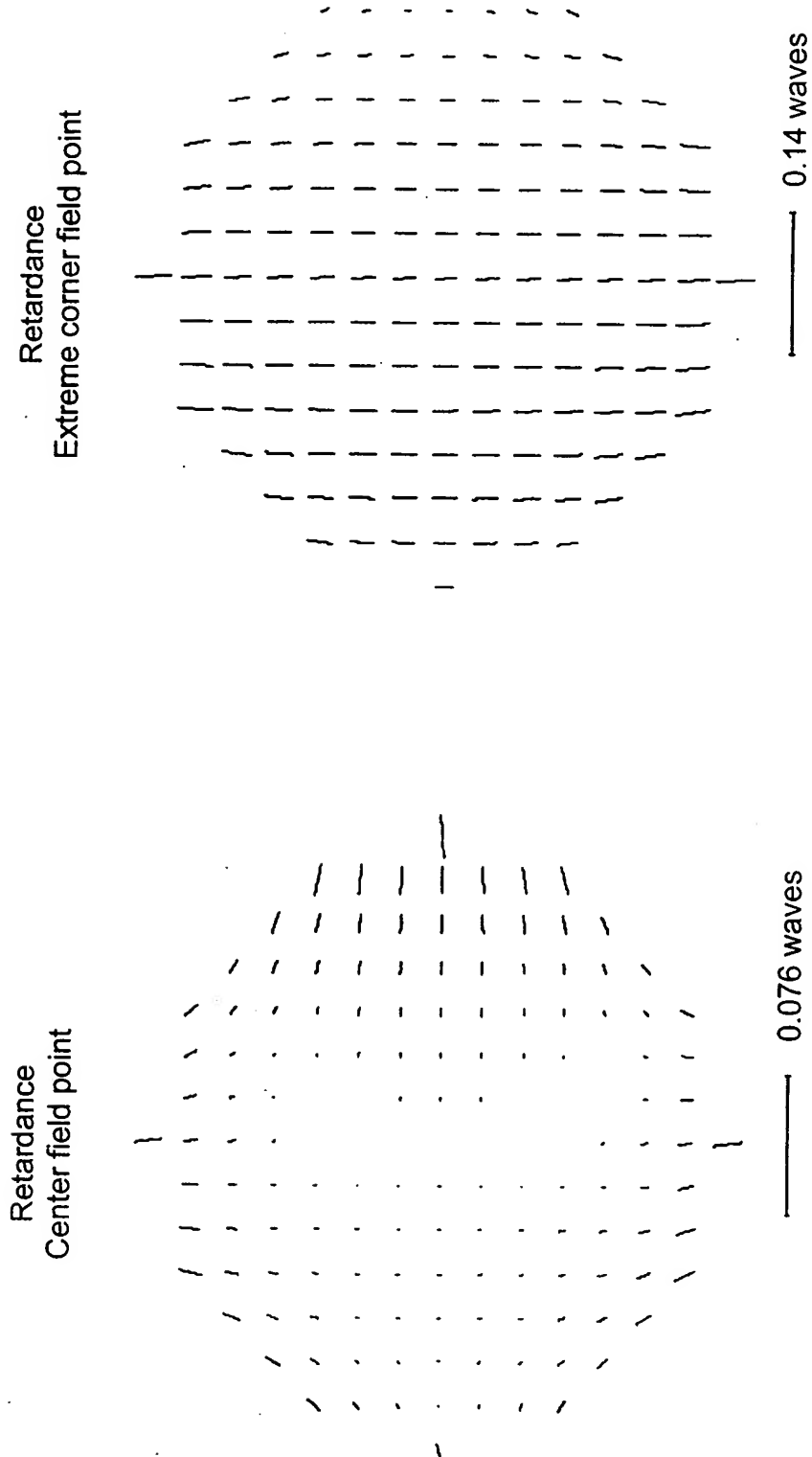


Figure 35B

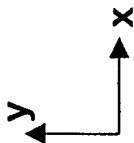
Figure 35A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

Min: -0.04λ
Max: 0.12λ
Increment: 0.01λ



Extreme Field Point

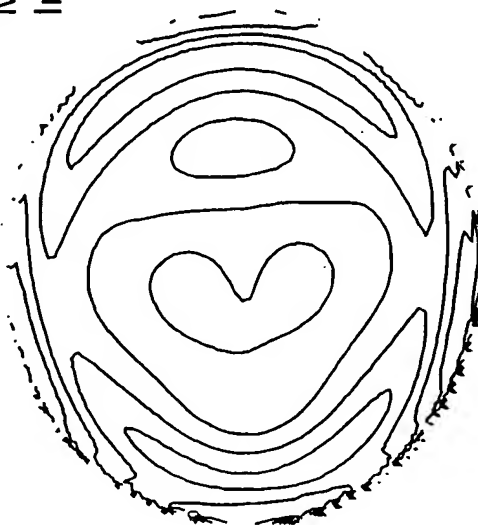
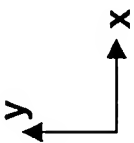


Figure 36B

Min: -0.04λ
Max: 0.05λ
Increment: 0.01λ



Center Field Point

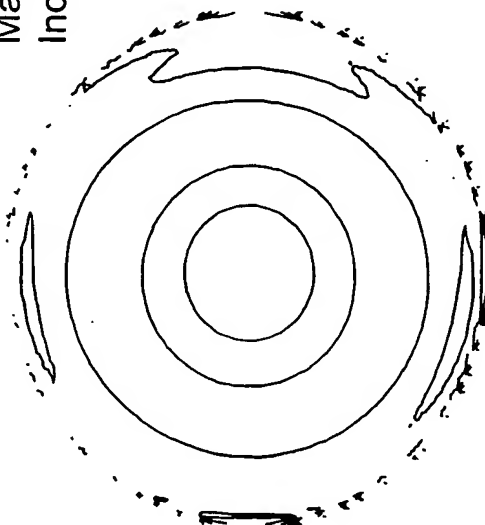


Figure 36A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2

Min: -0.04λ
Max: 0.11λ
Increment: 0.01λ

Extreme Field Point

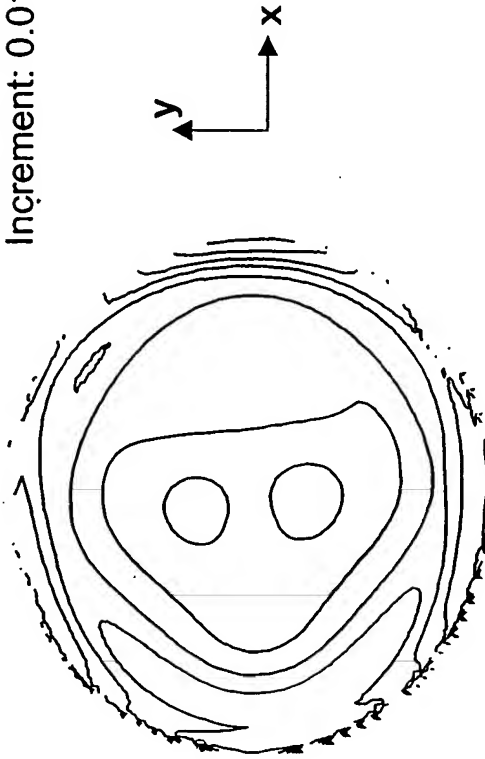


Figure 36D

Min: -0.04λ
Max: 0.05λ
Increment: 0.01λ

Center Field Point

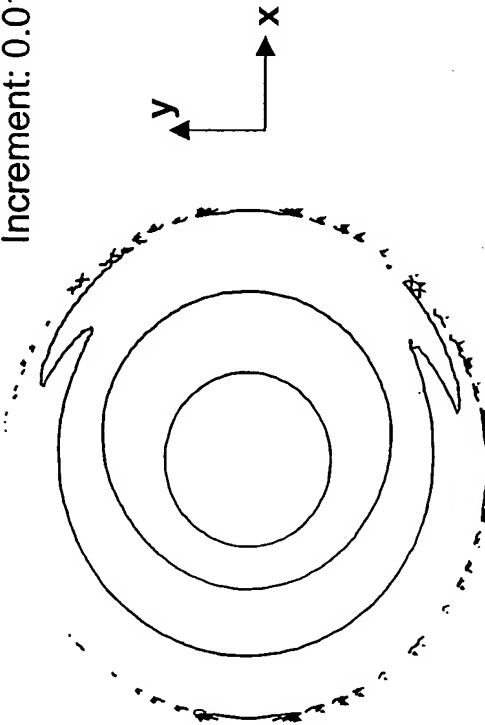


Figure 36C

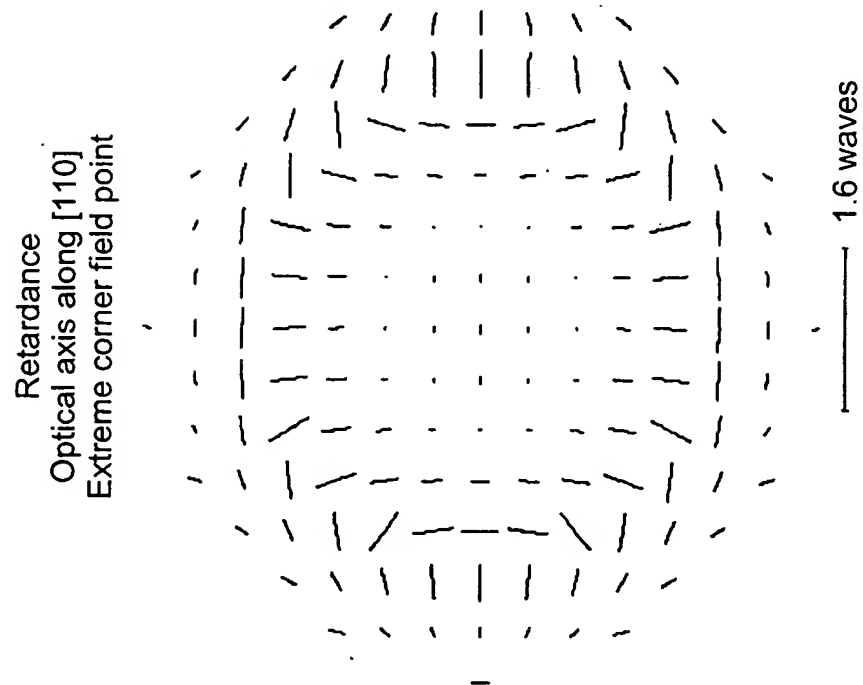


Figure 37B

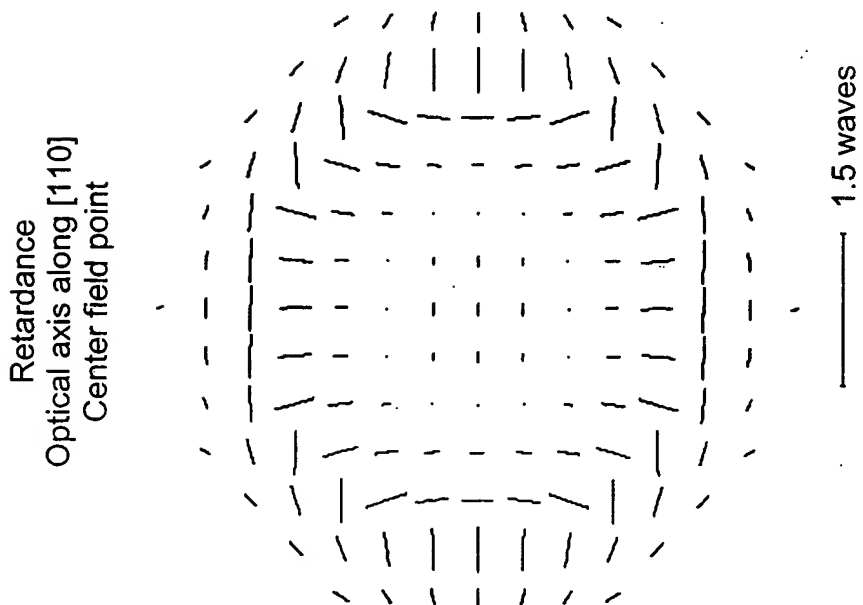


Figure 37A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

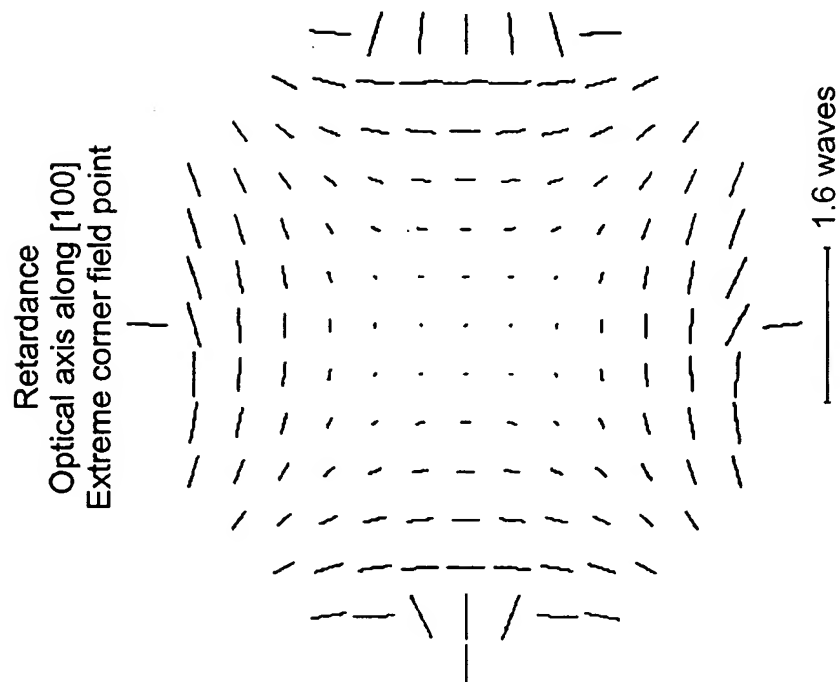


Figure 38A

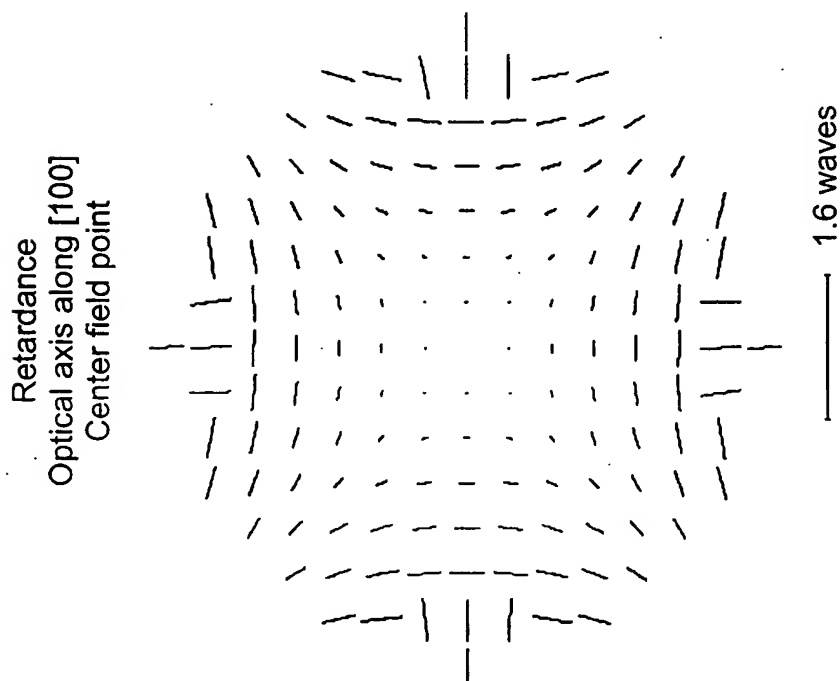


Figure 38B

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2

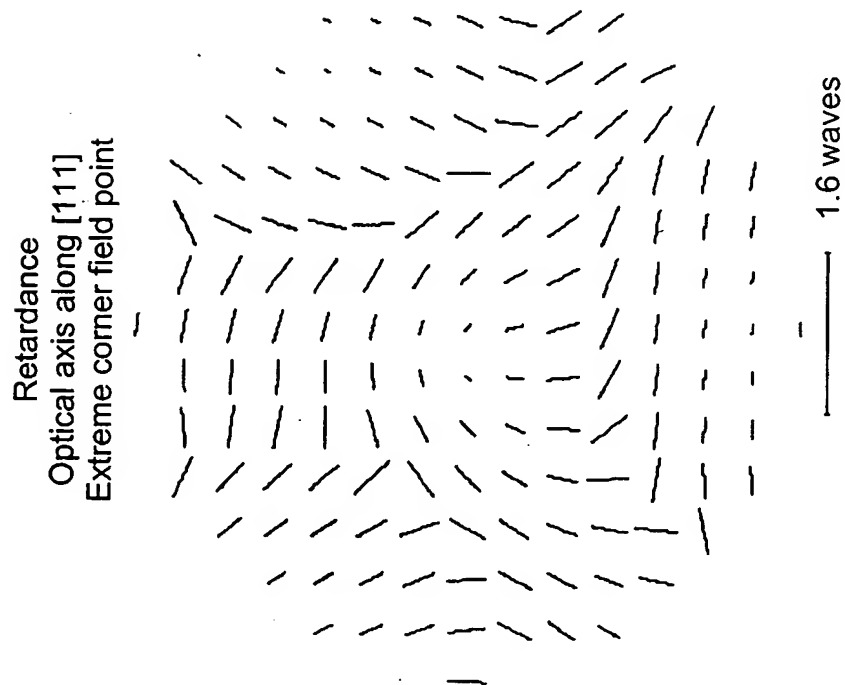


Figure 39B

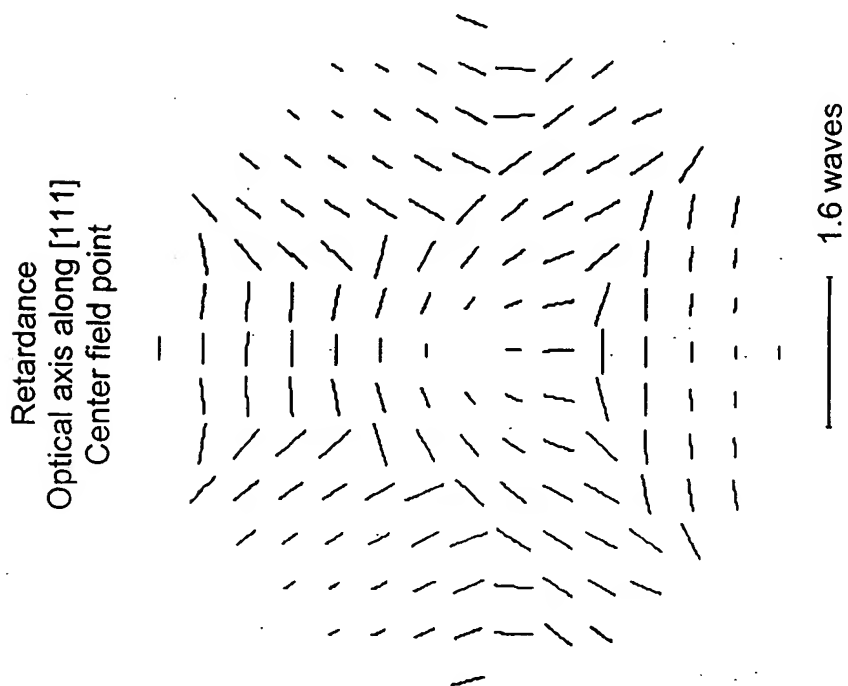


Figure 39A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

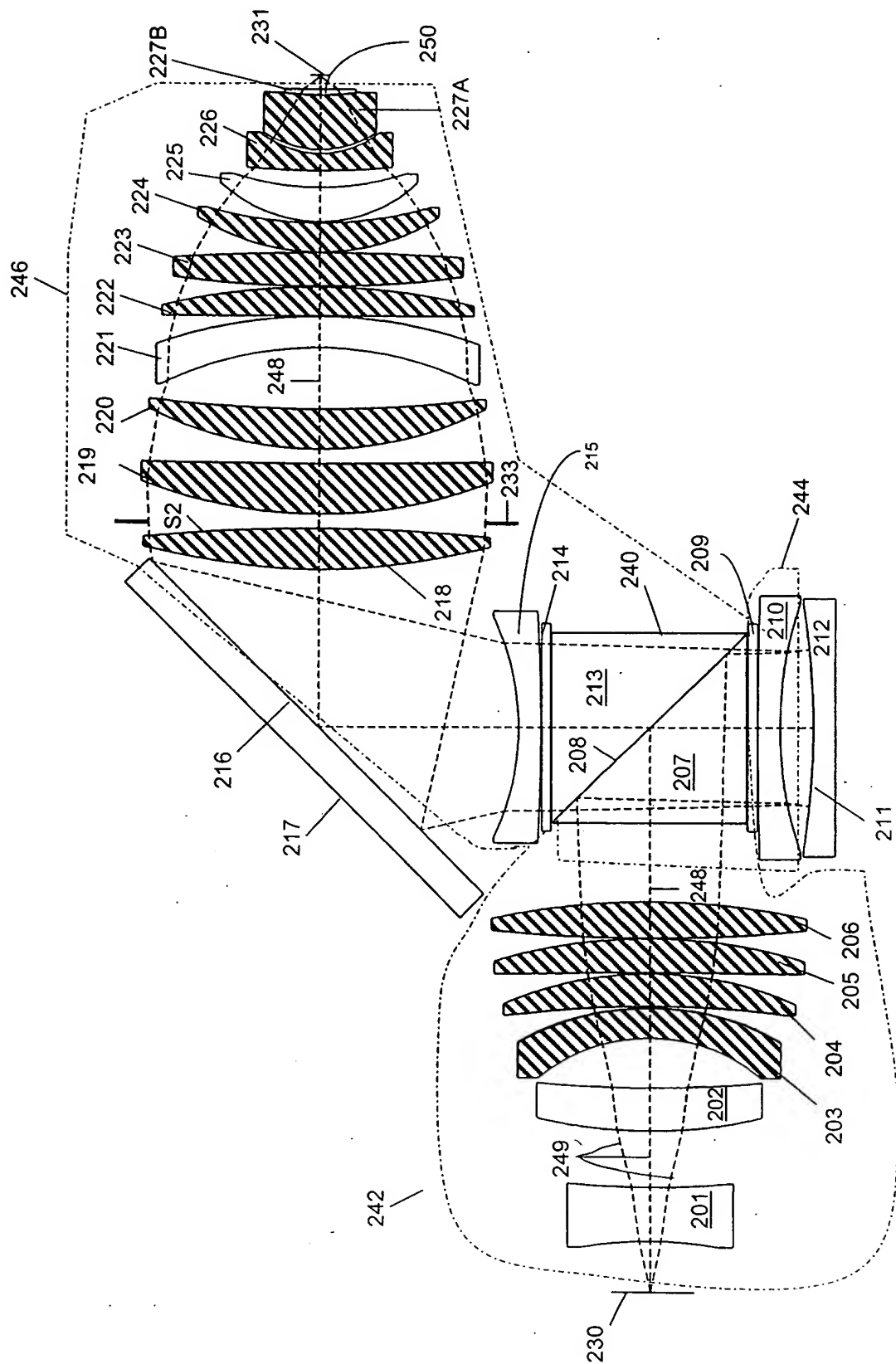


Figure 40

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2

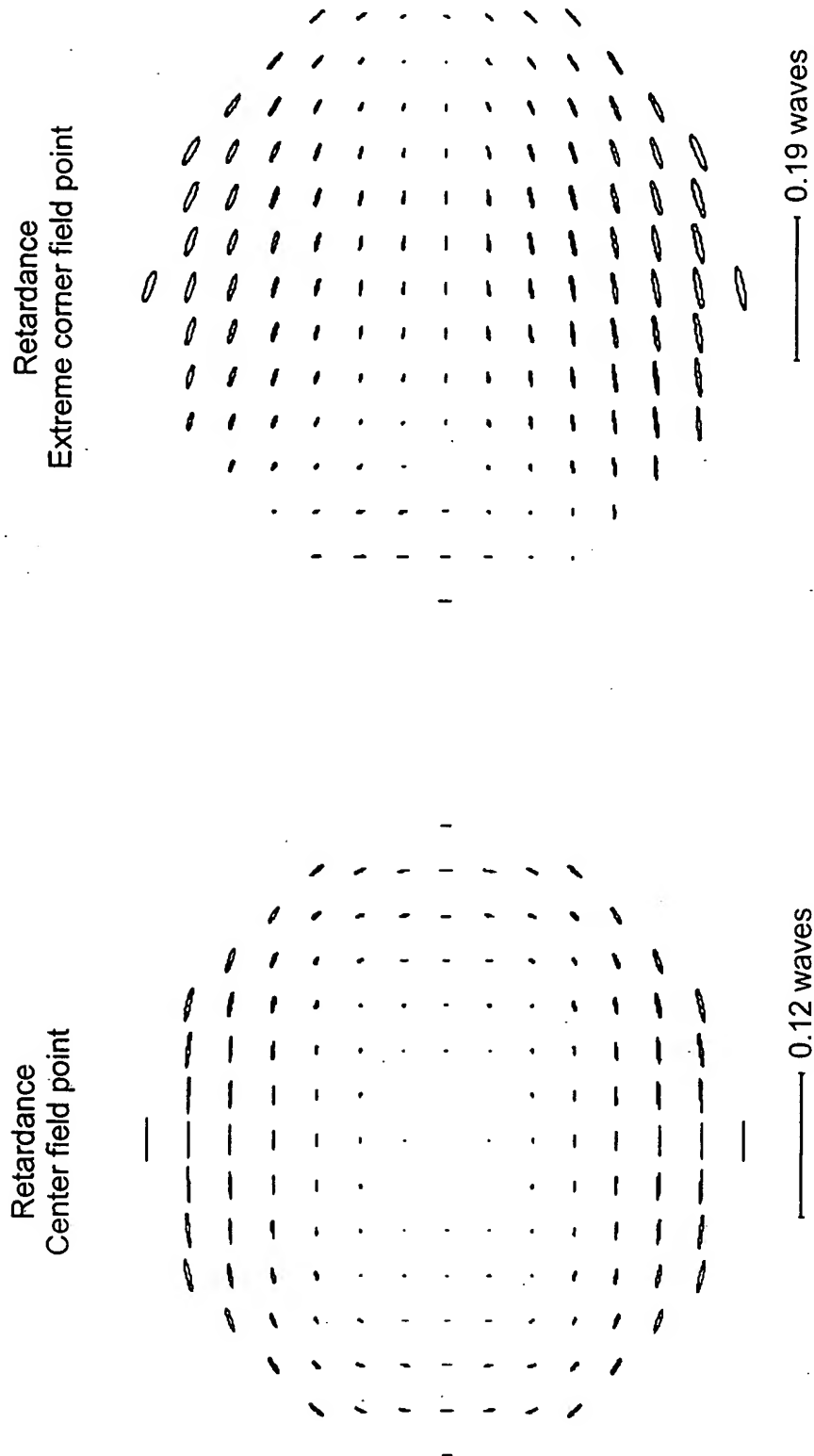


Figure 41A

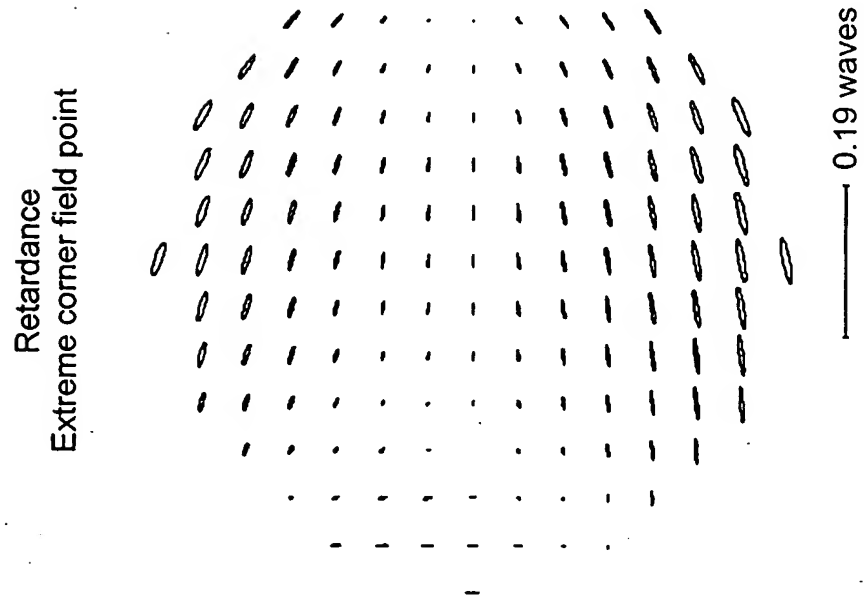


Figure 41B

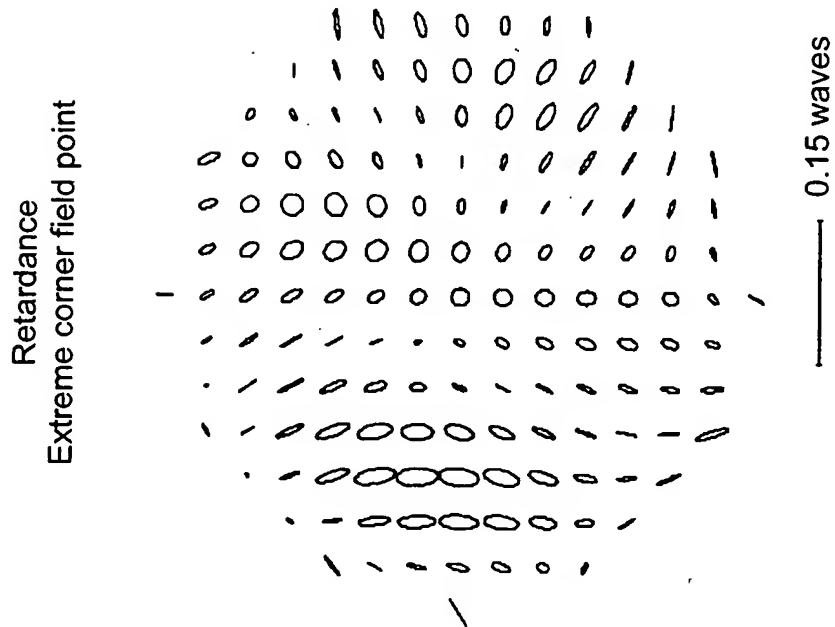


Figure 42B

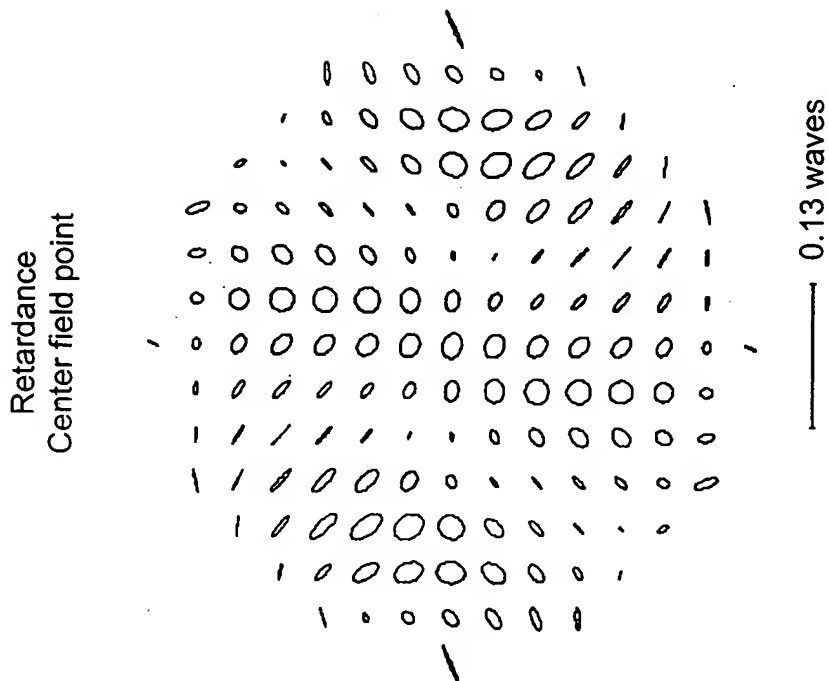


Figure 42A

*CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS*

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

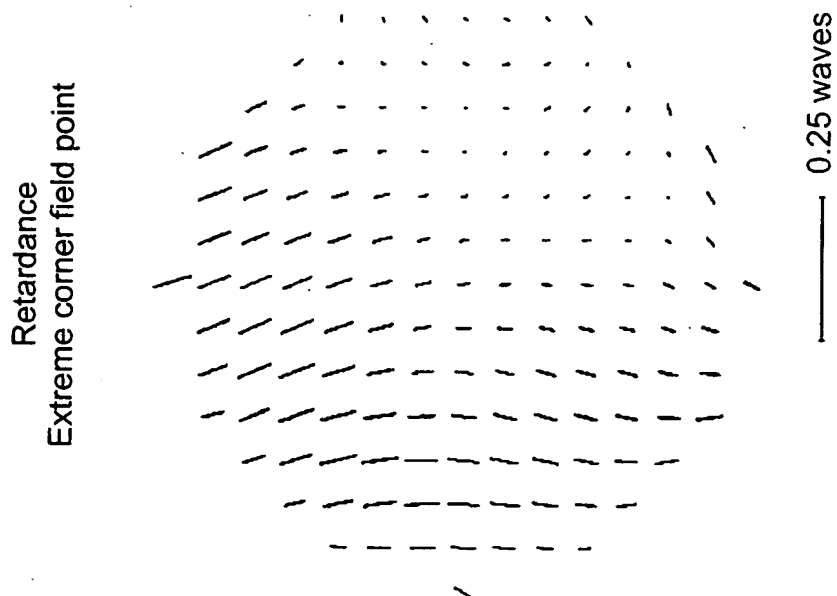


Figure 43B

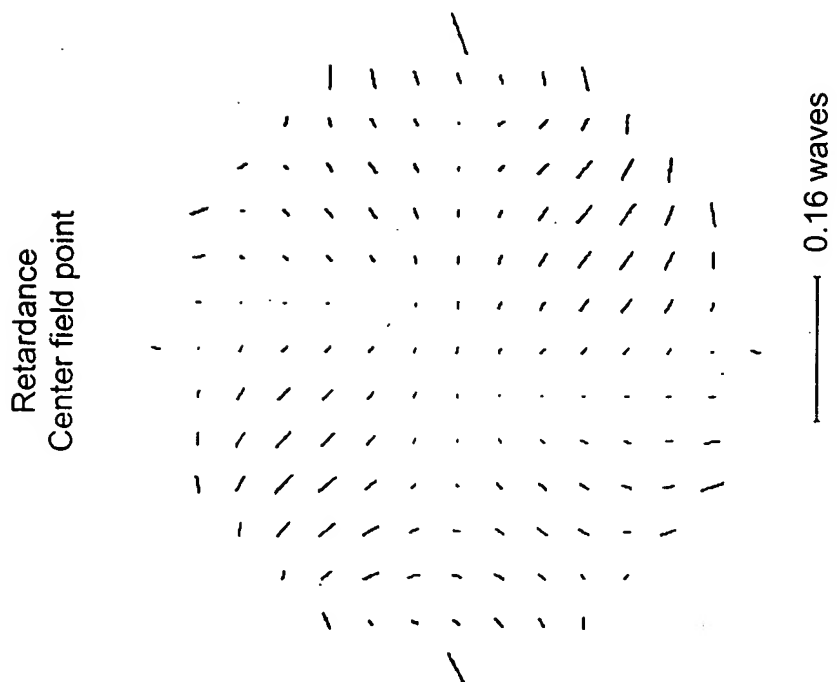


Figure 43A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown Atty Docket: OPTRES.026C2

Min: -0.04λ
Max: 0.15λ
Increment: 0.01λ

Extreme Field Point

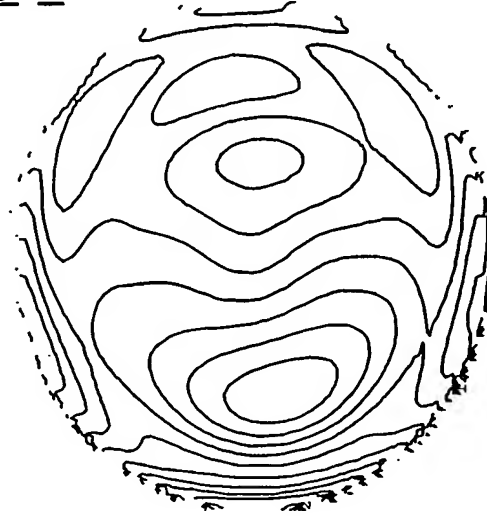


Figure 44B

Min: -0.05λ
Max: 0.07λ
Increment: 0.01λ

Center Field Point

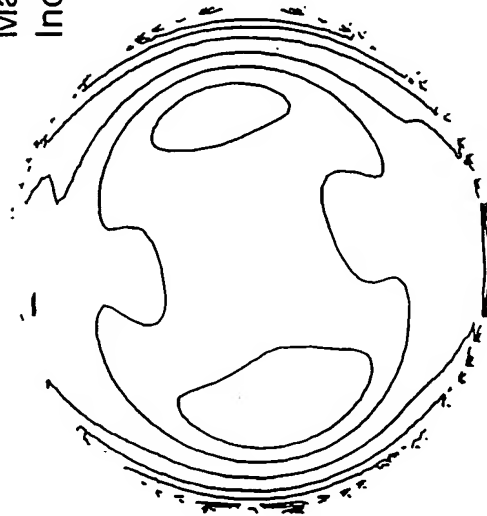


Figure 44A

CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2

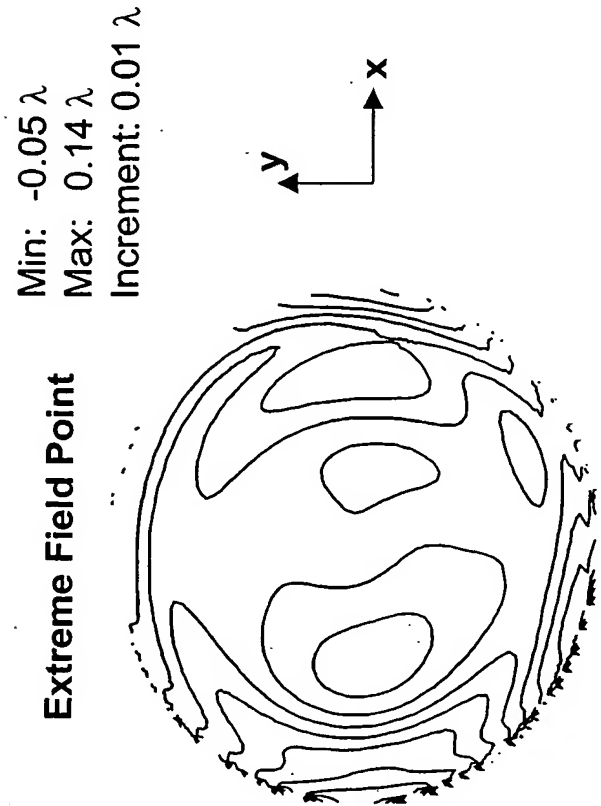


Figure 44D

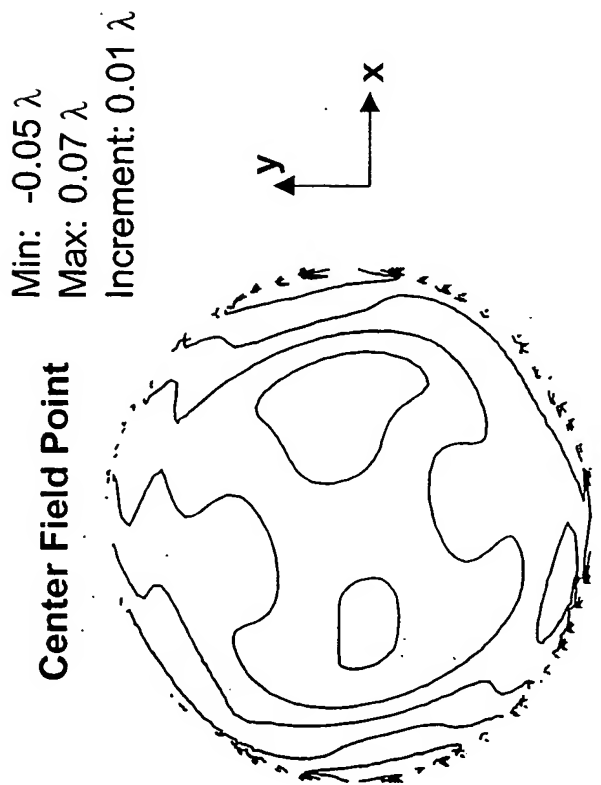


Figure 44C

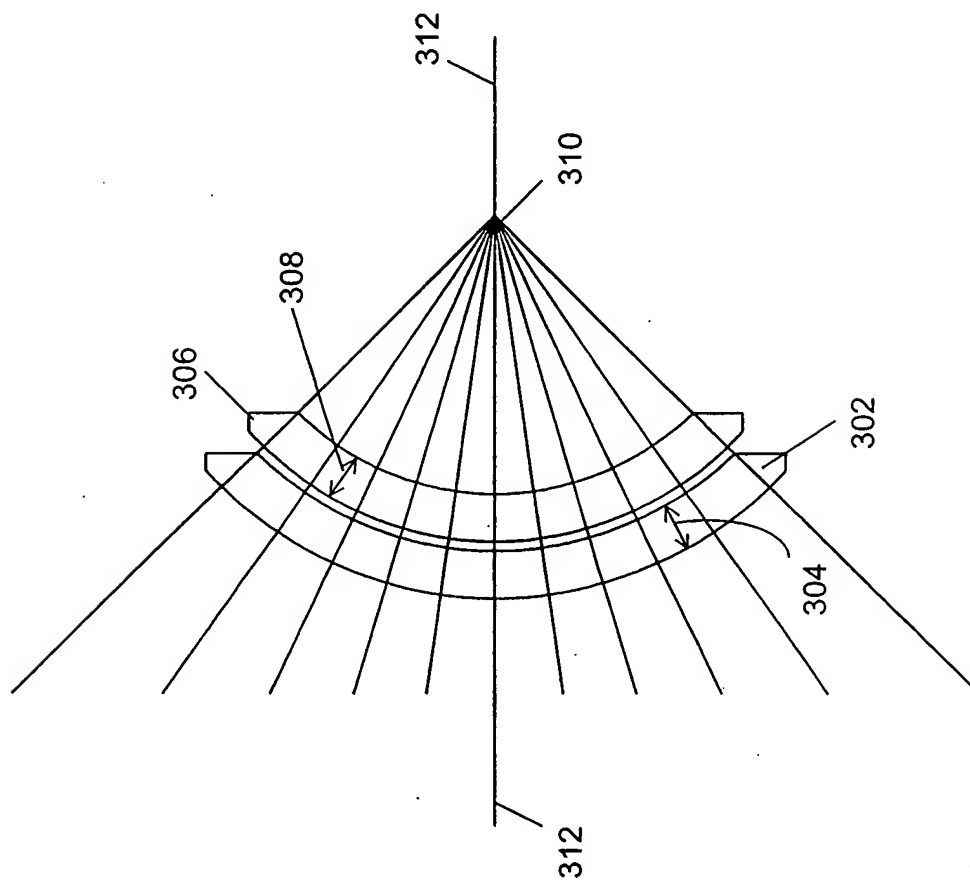


Figure 45

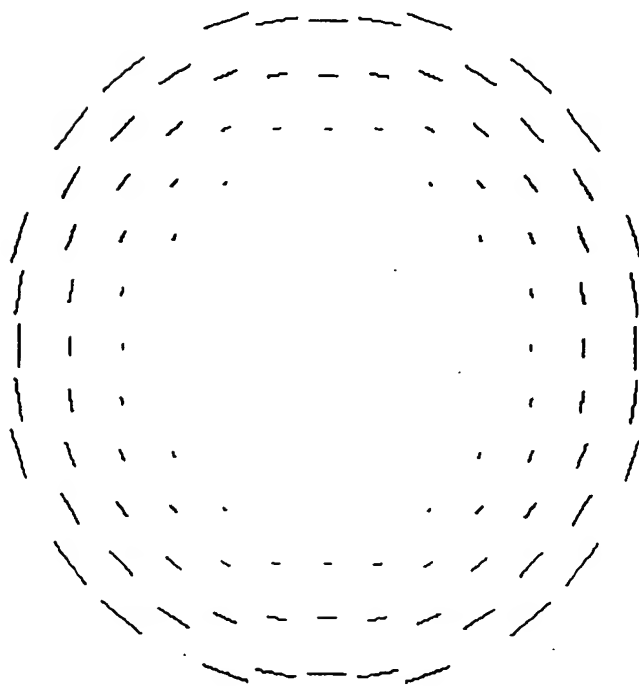
CORRECTION OF BIREFRINGENCE IN CUBIC CRYSTALLINE
OPTICAL SYSTEMS

Hoffman, et al.

Appl. No.: Unknown

Atty Docket: OPTRES.026C2

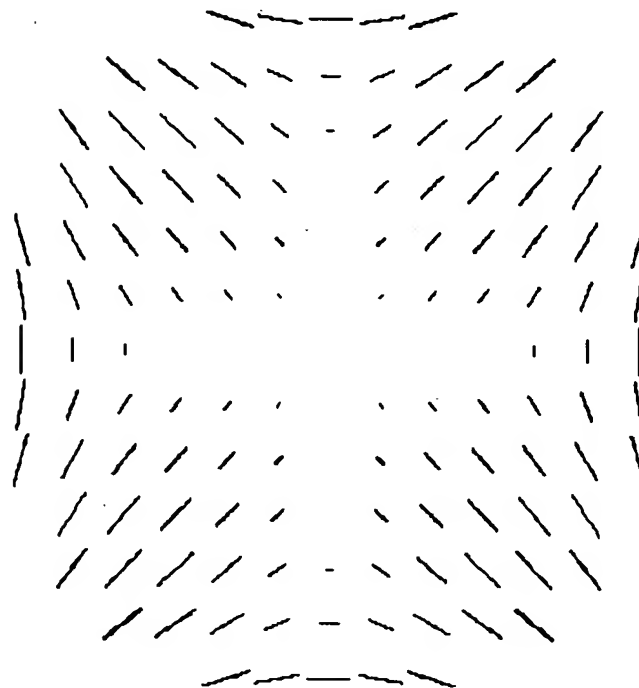
Retardance Due To
Stress-Induced Birefringence



0.045 waves

Figure 46A

Net Retardance



0.059 waves

Figure 46B